SONY

3-862-099-11 (2)

CD/DVD Player

Operating Instructions

DVP-S300

1998 by Sony Corporation

WARNING

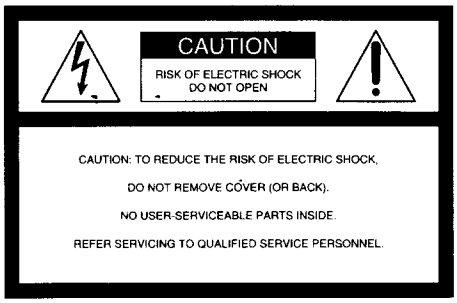
To prevent fire or shock hazard, do not expose the unit to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD Player is harmful to eyes, do not attempt to disassemble the cabinet.
Refer servicing to qualified personnel only.

This label is located on the Laser protective housing inside the enclosure.

For customers in the U.S.A.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. DVP-S300
Serial No._____

CAUTION

You are cautioned that any change or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Welcome!

Thank you for purchasing the Sony CD/DVD Player. Before operating the unit, please read this manual thoroughly and retain it for future reference.

TABLE OF CONTENTS

This Player Can Play the Following Discs 4

Getting Started

Unpacking 6
Hooking Up the System 6
Necessary Setup Before Using the Player 9
Selecting the Language for On-screen Display 9

Basic Operations

Playing a DVD 10

Playing a CD/VIDEO CD 14

Playing Discs in Various Modes

Using the On-Screen Display 18
Using the Front Panel Display 20
Playing Repeatedly (Repeat Play) 22
Playing in Random Order (Shuffle Play) 23
Creating Your Own Program (Program Play) 24
Resuming Playback from the Point Where You Stopped a Disc (Resume Play) 25
Changing the Sounds 26
Displaying the Subtitles 26
Changing the Angles 27
Limiting Playback by Children (Parental Control) 28
Controlling the TV or the AV receiver with the Supplied Remote 30

Settings and Adjustments

Using the Setup display 32
Setting the Language for Display and Sound (LANGUAGE SETUP) 33
Settings for Display (INITIAL SETUP 1) 34
Settings for Sound (INITIAL SETUP 2) 35

Additional Information

Precautions 36
Notes on Discs 36
Troubleshooting 37
Self-diagnosis function 39
Specifications 40
Glossary 40
Index to Parts and Controls 42
Setup Display Item List 45
Language Code List 46

Index 47

About This Manual

The instructions in this manual are for model DVP-S300.

Conventions

- Instructions in this manual describe the controls on the player.
  You can also use the controls on the remote if they have the same or similar names as those on the player.
- The icons on the right are used in this manual:

Icon	Meaning
	Indicates that you can use only the remote to do the task.
	Indicates tips and hints for making the task easier.
DVD	Indicates the functions for DVD VIDEOs.
VIDEO CD	Indicates the functions for VIDEO CDs.
CD	Indicates the functions for Audio CDs.

This Player Can Play the Following Discs

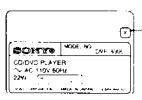
	DVD VIDEOs		VIDEO CDs		Audio CDs	
Disc logo	DVD VIDEO		COMPACT disc DIGITAL VIDEO		COMPACT disc DIGITAL AUDIO	
Contents	Audio + Video		Audio + Video		Audio	
Disc size	12 cm	8 cm	12 cm	8 cm	12 cm	8 cm (CD single)
Play time	About 4 h (for single-sided DVD)/ about 8 h (for double-sided DVD)	About 80 min. (for single-sided DVD)/ about 160 min. (for double-sided DVD)	74 min.	20 min.	74 min.	20 min.

"DVD VIDEO" logo is a trademark.

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

Region code of DVDs you can play on this unit

Your DVD player has a region code printed on the back of the unit and will only play DVDs that are labeled with identical region codes.



DVDs labeled ALL will also play on this unit.

If you try to play any other DVD, the message "Playing this disc prohibited by area limits." will appear on the TV screen.

Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by the area limits.

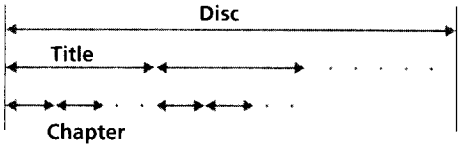
Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally fixed by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs or VIDEO CDs.

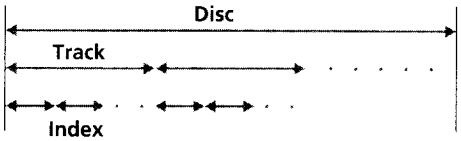
Terms for discs

- **Title**
  The longest sections of a picture or a music piece on a DVD; a movie, etc, for a picture piece on a video software; or an album, etc, for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.
- **Chapter**
  Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.
- **Track**
  Sections of a picture or a music piece on a VIDEO CD or a CD. Each track is assigned a track number enabling you to locate the track you want.

DVD structure



VIDEO CD or CD structure



- **Index (CD) / Video Index (VIDEO CD)**
  A number that divides a track some sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes may be recorded.
- **Scene**
  On a VIDEO CD with PBC functions, the menu screens, moving pictures and still pictures are divided into sections called "scenes." Each scene is assigned a scene number enabling you to locate the scene you want.

Note on PBC (Playback Control) (VIDEO CDs)

This player conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback according to the disc type.

Disc type	You can
VIDEO CDs without PBC functions (Ver. 1.1 discs)	Enjoy video playback (moving pictures) as well as music.
VIDEO CDs with PBC functions (Ver. 2.0 discs)	Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Discs that the player cannot play

The player cannot play discs other than the ones listed in the table on page 4. CD-ROMs including PHOTO CDs, data sections in CD-EXTRAs and DVD-ROMs, etc. can not be played.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

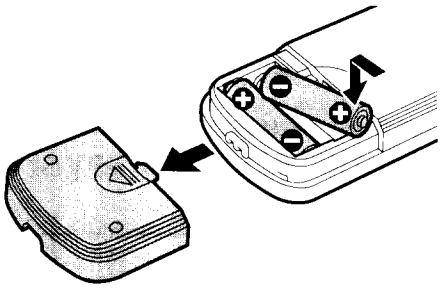
Unpacking

Check that you have the following items:

- Audio/Video/S-link connecting cord (1)
- S video cable (1)
- Remote commander (remote) RMT-D105A (1)
- Size AA (R6) batteries (2)

Inserting batteries into the remote

You can control the player using the supplied remote. Insert two R6 (size AA) batteries by matching the + and – on the batteries. When using the remote, point it at the remote sensor ■ on the player.



You can control Sony TVs and AV receivers using the supplied remote

See page 30.

Notes

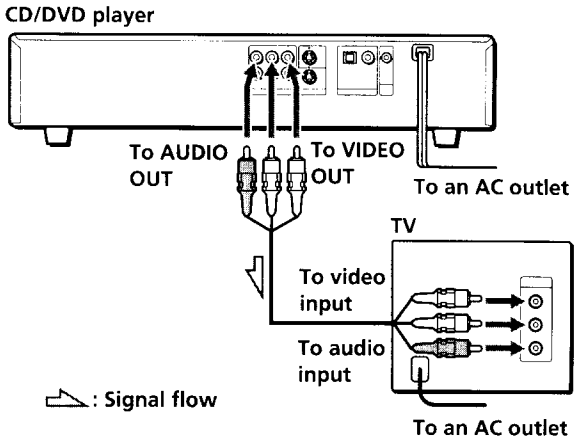
- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you will not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Hooking Up the System

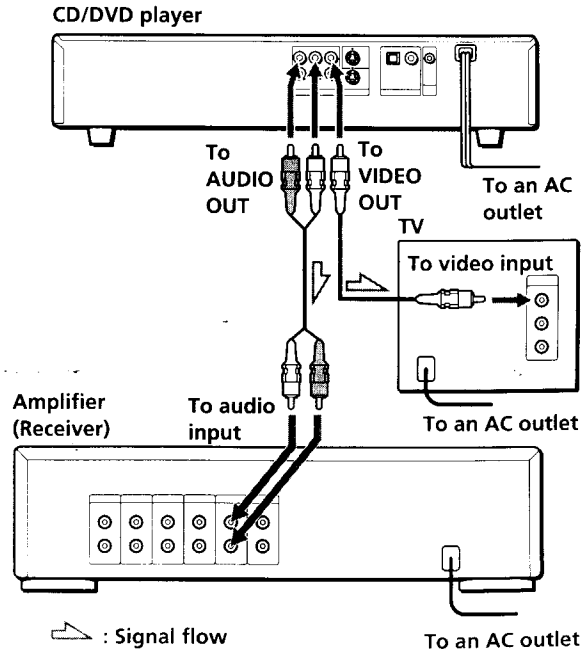
Overview

This section describes how to hook up the CD/DVD player to a TV (with audio/video input jacks) and/or an amplifier. You cannot connect this player to a TV without a video input connector. **Be sure to turn off the power of each component before making the connections.**

■To listen to the sound through TV speakers

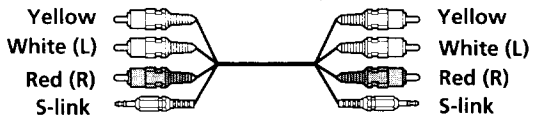


■To listen to the sound through speakers connected to an amplifier (receiver)



What cords will I need?

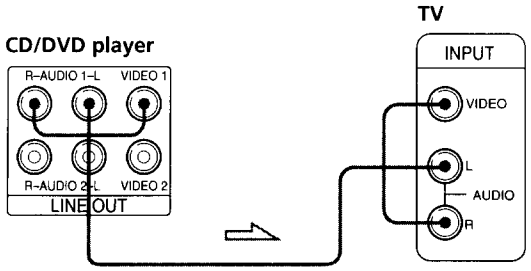
Audio/Video connecting cord (supplied) (1)



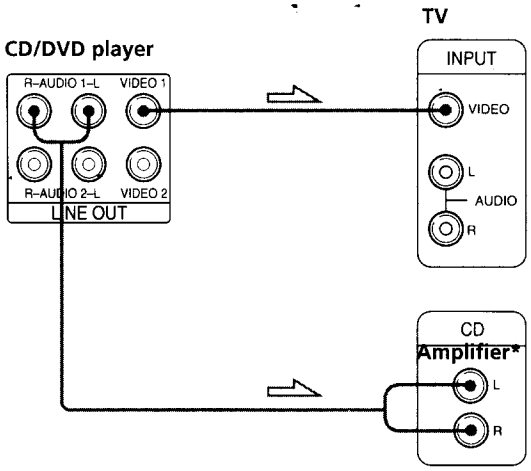
Hookups

When connecting the cords, be sure to match the color-coded cord to the appropriate jacks on the components: Yellow (video) to Yellow, Red (right) to Red and White (left) to White. Be sure to make connections firmly to avoid hum and noise.

■To listen to the sound through TV speakers



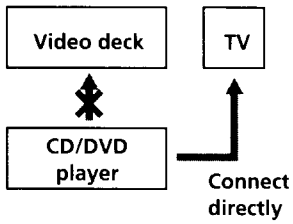
■To listen to the sound through speakers connected to an amplifier



* Make the same connections when your amplifier conforms to "Pro Logic."

Notes

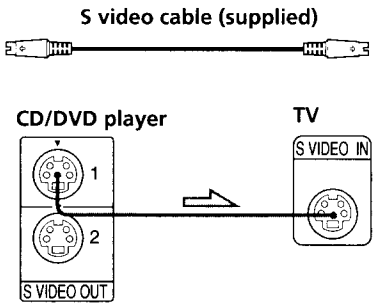
- Do not connect this player to a video deck. If you view the pictures on your TV after making the connections shown on the right, a picture noise may appear.



- Depending on the TV or amplifier, sound distortion may occur because the audio output level is high. In this case, set "AUDIO ATT" in "INITIAL SETUP 2" to "ON" in the setup display. For details, see page 35.

If your TV has an S video input connector

Connect the component via the S VIDEO OUT connector using the S video cable (supplied) instead of the video connecting cord. You will get a better picture.

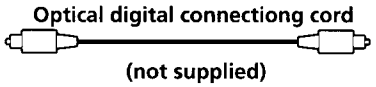


If you have a digital component such as an amplifier with a digital connector, DAT or MD

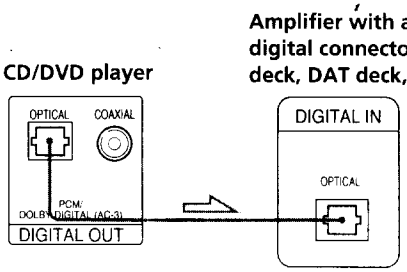
Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connecting cord (not supplied).

When you play a DVD, set "DIGITAL OUT" in "INITIAL SETUP 2" to "PCM" in the setup display. (page 35)

■When using an optical digital connectiong cord

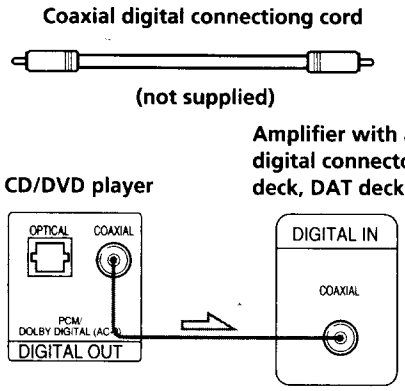


Take off the cap and plug in the optical digital connectiong cord.



(Continued)

■When using a coaxial digital connectiong cord



Notes

- Refer to the instructions supplied with the component to be connected.
- You cannot make digital audio recordings of discs recorded in Dolby* Digital (AC-3) format directly using an MD deck or DAT deck.

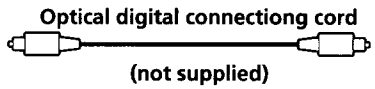
When you make the connections above, do not set "DIGITAL OUT" in "INITIAL SETUP 2" to "DOLBY DIGITAL/PCM." If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.

If you have a digital component with a built-in Dolby Digital decoder

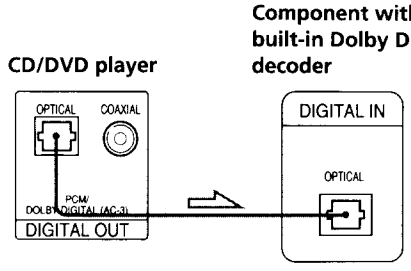
Connect the component via the DIGITAL OUT OPTICAL or COAXIAL connector using an optical or coaxial digital connectiong cord (not supplied). When the component with a built-in Dolby Digital decoder is connected, the player plays DVDs with sound recorded in Dolby Digital (AC-3) format while producing the effect of being in a movie theater or a concert hall.

In the setup display, set "DIGITAL OUT" in "INITIAL SETUP 2" to "DOLBY DIGITAL/PCM." (page 35)

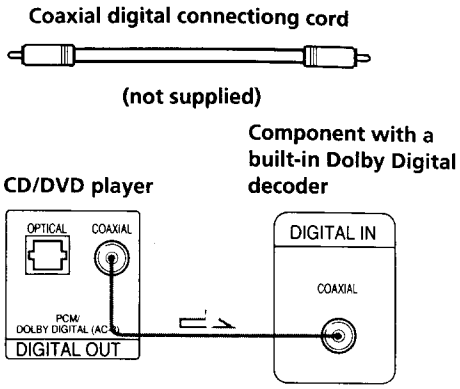
■When using an optical digital connectiong cord



Take off the cap and plug in the optical digital connectiong cord.



■When using a coaxial digital connectiong cord

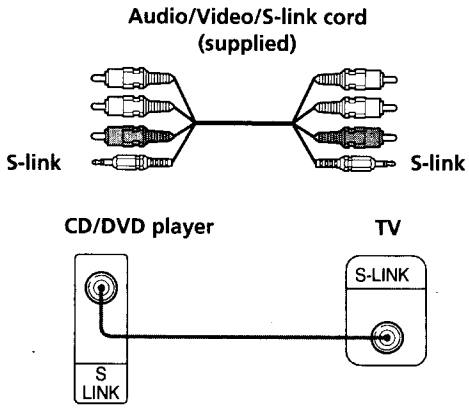


Note

Refer to the instructions supplied with the component to be connected.

If your TV has an S-link connector

You can control the CD/DVD player from the TV. Connect the TV via the S-LINK connector using the S-link cable (supplied). Refer to the instructions supplied with the TV to be connected.



* Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", the double-D symbol ⧈, "Pro Logic" and "Dolby Digital (AC-3)" are trademarks of Dolby Laboratories Licensing Corporation.

Necessary Setup Before Using the Player

Some setups are necessary for the player depending on the TV or other components to be connected.
For details on using the setup display, see page 32.
For details on each setup display item, see pages 33 to 35.

■To connect the player to a wide-screen TV
In the setup display, set "TV TYPE" in "INITIAL SETUP 1" to "16:9."

■To connect the player to a normal TV
In the setup display, set "TV TYPE" in "INITIAL SETUP 1" to "4:3 LETTER BOX" (default setting) or "4:3 PAN SCAN." For details, see page 34.

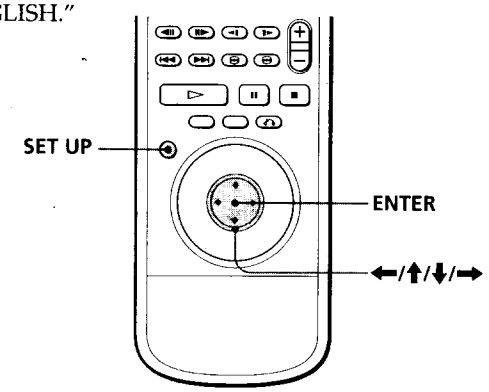
■To listen to the sound through speakers connected to an amplifier with a digital connector or to output the sound to a digital component such as a DAT or MD deck
When you play a DVD, set "DIGITAL OUT" in "INITIAL SETUP 2" to "PCM" in the setup display. This is default setting.

■To connect the player to a digital component with a built-in Dolby Digital decoder
In the setup display, set "DIGITAL OUT" in "INITIAL SETUP 2" to "DOLBY DIGITAL/PCM."

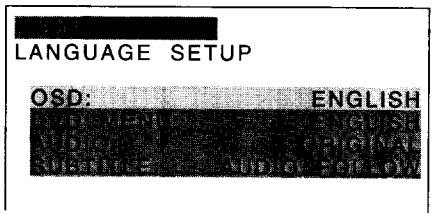
Use the setup display to change the various settings for the picture and sound.
For details, see page 32.

Selecting the Language for On-screen Display

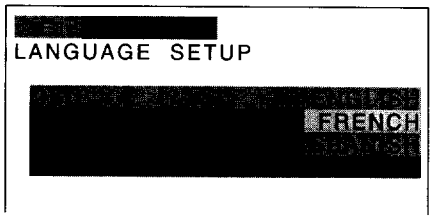
You can select the language for the setup display or the messages displayed on the screen. Default setting is "ENGLISH."



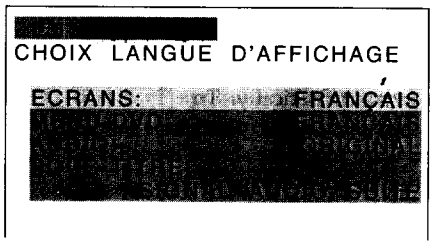
1 Press SET UP and select "🧰" using ←/→, and then press ENTER.



2 Select "OSD" using ↑/↓, then press → or ENTER.



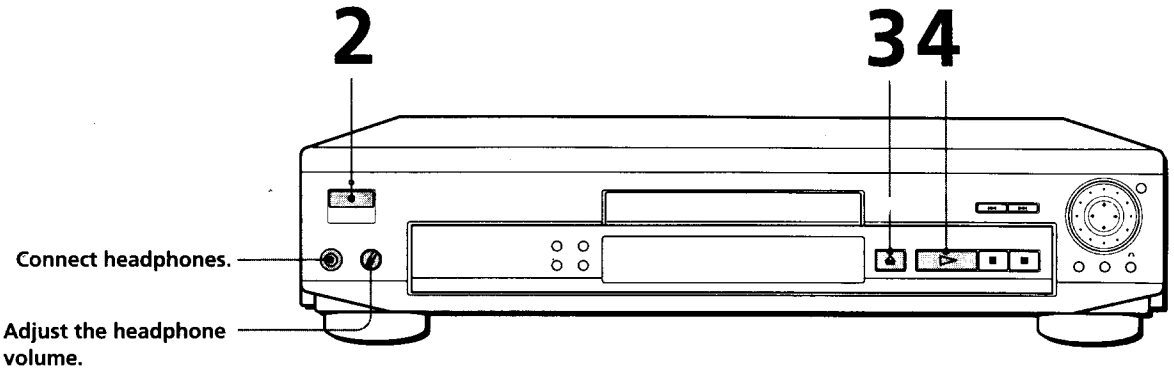
3 Select the language you want using ↑/↓, then press ENTER.



To cancel using the setup display on the way
Press SET UP.

Note
The languages you can select are the ones displayed in step 2.
For details, see page 33.

Playing a DVD



- **The operating procedure of CDs or VIDEO CDs is different from that of DVDs. For details, see pages 14 to 17.**

You can turn on the player using the remote
Press POWER when the indicator above the POWER button on the front panel is lit in red.

After following Step 4
A DVD menu or title menu may appear on the TV screen (see page 13).

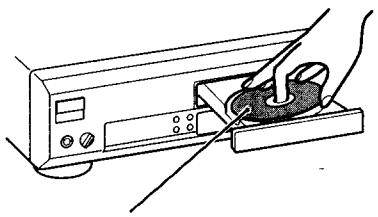
Note
If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To disappear the screen saver, press ▷. (If you want to set the screen saver function to off, see page 34.)

1 **Make settings on your TV.**
Turn on the TV and select the video input so that you can view the pictures from this player.

When using an amplifier
Turn on the amplifier and select the appropriate position so that you can listen to the sound from this player.

2 Press POWER to turn on the player.
The indicator (red) above the POWER button changes to green and the front panel display lights up.

3 Press ⏏, and place the disc on the disc tray.



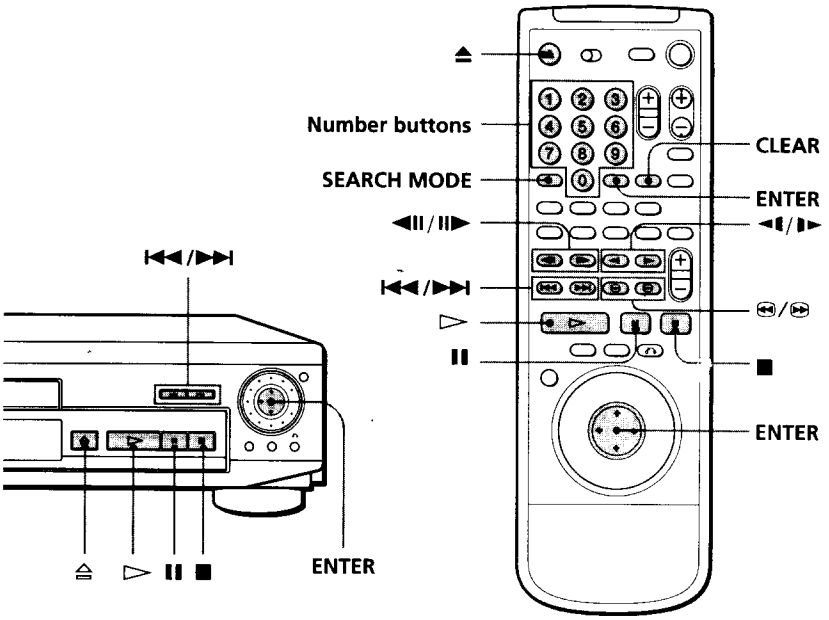
With the playback side facing down

4 Press ▷.
The disc tray closes, and the player starts playback (Continuous Play). Adjust the volume on the TV or the amplifier.

Depending on the DVD, some operations may be different or restricted. Refer to the instructions supplied with your disc.

When "RESUME" appears on the front panel display
You can resume playback from the point where you stopped the DVD (page 25). To play from the beginning of the disc, see page 25.

Note
You may not be able to do Resume Play depending on the DVD.



What are chapter and title?
See page 5.

Notes
Depending on the DVD, you may not be able to do some of the operations described on the right.

Each time you press SEARCH MODE
"CHAPTER SEARCH," "TITLE SEARCH" and "TIME SEARCH" appear on the TV screen.

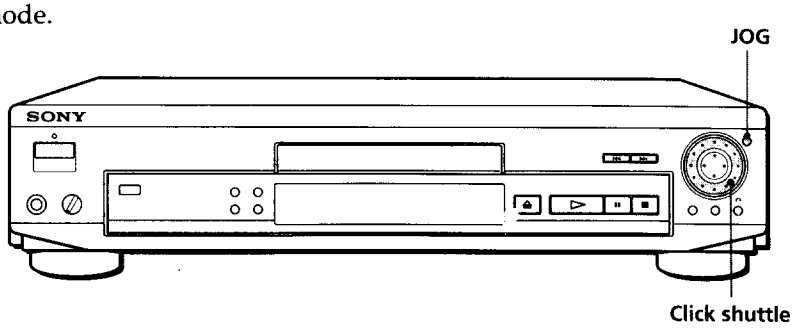
If you want to change the search speed
Two speeds are available: FF1▶▶ or FR1◀◀ (about 10 times the normal speed) and FF2▶▶ or FR2◀◀ (about 30 times).
Each time you press ⏪ or ⏩, the indication changes as follows:
FF1▶▶ (FR1◀◀) ⟷ FF2▶▶ (FR2◀◀)

To	Press
Stop	■
Pause	II
Resume play after pause	II or ▷
Play frame by frame	◀II or II▶
Play in slow motion	◀ or ▶
Go to the next chapter in Continuous Play mode	▶▶I
Go back to the preceding chapter in Continuous Play mode	I◀◀
Select the chapter	1 SEARCH MODE repeatedly until "CHAPTER SEARCH" appears on the TV screen. 2 Number buttons to select the chapter number, then ENTER or ▷.
Select the title	1 SEARCH MODE repeatedly until "TITLE SEARCH" appears on the TV screen. 2 Number buttons to select the title number, then ENTER or ▷.
Locate a point using the time code	1 SEARCH MODE repeatedly until "TIME SEARCH" appears on the TV screen. 2 Number buttons to enter a time code, then ENTER or ▷.
Locate a point while monitoring the picture (Scan)	⏪/⏩. You will not hear the sound during this operation. When you find the point you want, press ▷ to return to the normal speed.
Stop play and remove the disc	⏏

If you have made a mistake when you press the number button
Press CLEAR, then the correct number button.

To play at various speeds/frame-by-frame

Using the click shuttle and the JOG button/indicator on the player, you can playback a DVD with various speed or frame-by-frame. Each time you press JOG, it changes between shuttle mode and jog mode.



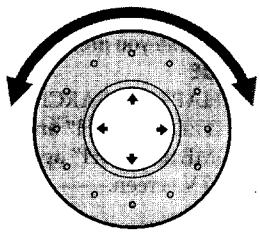
Notes

- Depending on the DVD, you may not be able to do some of the operations described on the right.
- When you play back a DVD at twice the normal speed in either direction, the sounds of the picture will come out from the LINE OUT (AUDIO 1, 2) connectors. The sounds are lower than the ones at normal speed. In this case, no sounds come out from the DIGITAL OUT OPTICAL and COAXIAL connectors.

■ To change the playback speed (Shuttle mode)

Turn the click shuttle. The playback speed changes depending on the turning direction and angle as follows:

FF2▶▶ (about 30 times the normal speed)
↕
FF1▶▶ (about 10 times the normal speed)
↕
×2▶ (about twice the normal speed)
↕
PLAY▶ (Normal speed)
↕
SLOW1▮▶ (playback direction)
↕
SLOW2▮▶ (playback direction – slower than "SLOW1▮▶")
↕
PAUSE ▮▮
↕
SLOW2◀▮ (opposite direction – slower than "SLOW1◀▮")
↕
SLOW1 ◀▮(opposite direction)
↕
×2◀ (about twice the normal speed : opposite direction)
↕
FR1◀◀ (about 10 times the normal speed)
↕
FR2◀◀ (about 30 times the normal speed)



If you turn the click shuttle quickly, the playback speed goes to FF2▶▶/FR2◀◀ at once.

To return to Continuous Play

Press ▷.

■ To play the DVDs frame-by-frame changing the playback speed (Jog mode)

1. Press JOG.
   The JOG button lights up during jog mode. When you press JOG, the playback is paused.
2. Turn the click shuttle.

Depending on the turning speed, the playback goes to frame-by-frame toward the turning direction of the click shuttle. If you turn the click shuttle with constant speed for a while, the playback speed goes to slow or normal.

To return to Continuous Play

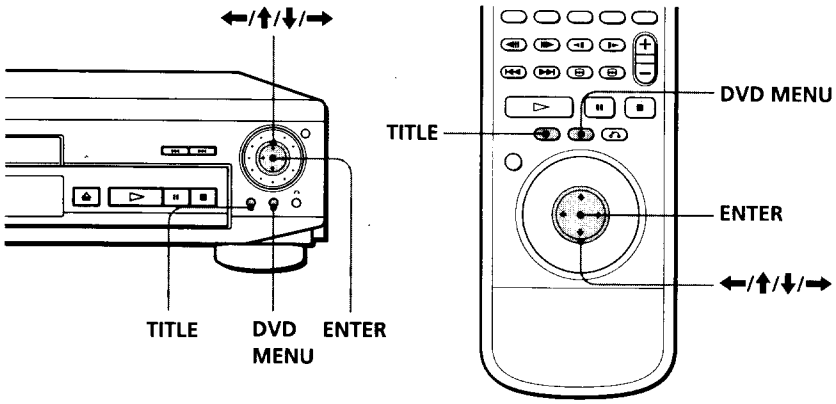
Press ▷.

Notes

- Depending on the DVD, you may not be able to select the title.
- Depending on the DVD, a "title menu" may simply be called a "menu" or "title " in the instructions supplied with the disc. "Press ENTER." may also be expressed as "Press SELECT."

Using the Title Menu

A DVD is divided into long sections of a picture or a music piece called "titles." When you play the DVD which contains several titles, you can select the title you want using the title menu.



1 Press TITLE.

The title menu appears on the TV screen. The contents of the menu varies from disc to disc.

2 Press ←/↑/↓/→ to select the title you want to play.

Depending on the disc, you can use the number buttons to select the title.

3 Press ENTER.

The player starts playing the selected title.

If you want to select the language for the DVD menu

Change the setting using "LANGUAGE SETUP" in the setup display (see page 33).

Note

Depending on the DVD, a "DVD menu" may simply be called a "menu" in the instructions supplied with the disc.

Using the DVD menu

Some DVDs allow you to select the disc contents using the menu. When you play these DVDs, you can select the language for the sub-titles, the language for the sound, etc., using the DVD menu.

1 Press DVD MENU.

The DVD menu appears on the TV screen. The contents of the menu vary from disc to disc.

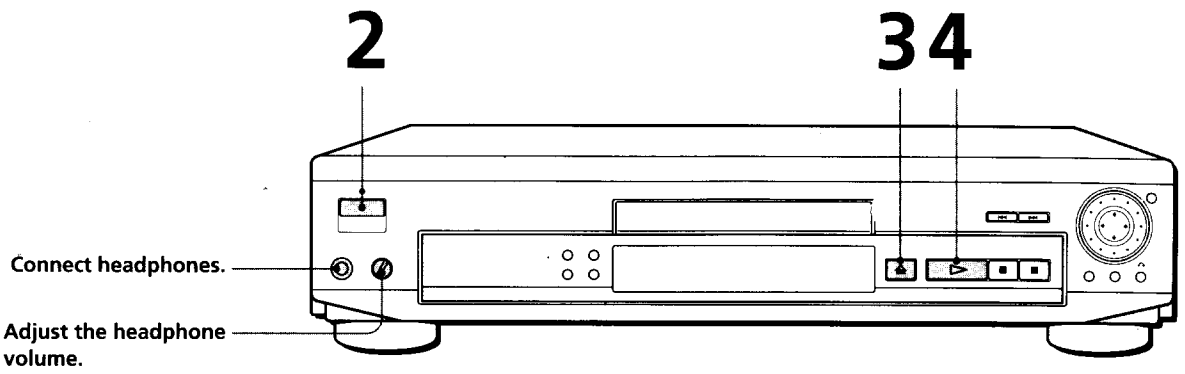
2 Press ←/↑/↓/→ to select the item you want to change.

Depending on the disc, you can use the number buttons to select the item.

3 To change other items, repeat Step 2.

4 Press ENTER.

Playing a CD/VIDEO CD



- **The operating procedure of DVDs is different from that of CDs or VIDEO CDs.**
  For details, see pages 10 to 13.

You can turn on the player using the remote
Press POWER when the indicator above the POWER button on the front panel is lit in red.

After following Step 4
The menu screen may appear on the TV screen depending on the VIDEO CD. You can play the disc interactively, following the instructions on the menu screen. (PBC Playback, see page 17.)

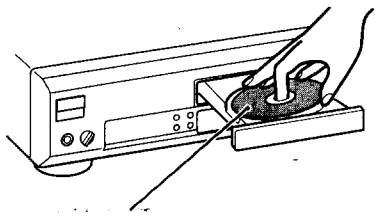
Note
If you leave the player or the remote in pause or stop mode for 15 minutes, the screen saver image appears automatically. To disappear the screen saver, press ▷. (If you want to set the screen saver function to off, see page 34.)

1 **Make settings on your TV.**
Turn on the TV and select the video input so that you can view the pictures from this player.

When using an amplifier
Turn on the amplifier and select the appropriate position so that you can listen to the sound from this player.

2 Press POWER to turn on the player.
The indicator (red) above the POWER button changes to green and the front panel display lights up.

3 Press ⏏, and place the disc on the disc tray.

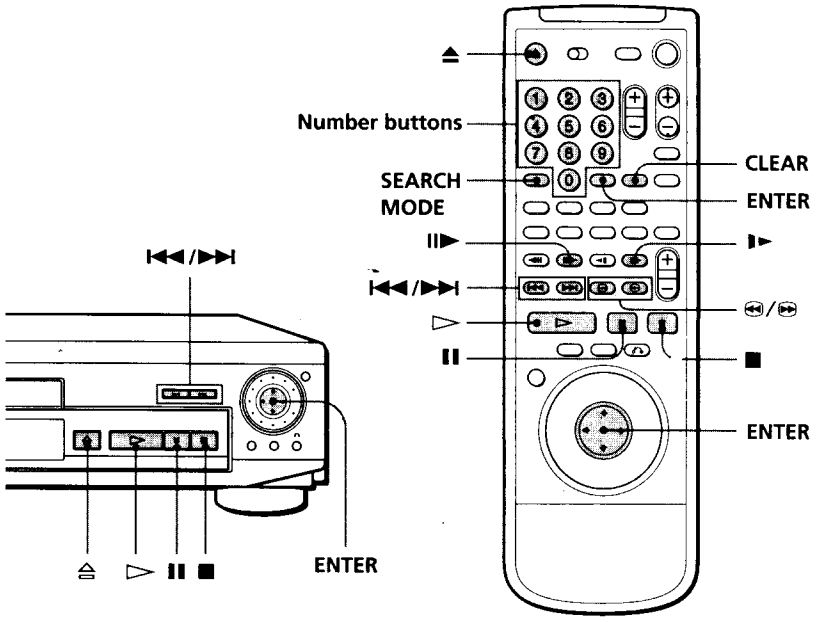


With the label side facing up

4 Press ▷.
The disc tray closes and the player starts playback (Continuous Play). Adjust the volume on the TV or the amplifier.

Depending on the VIDEO CD, some operations may be different or restricted. Refer to the instructions supplied with your disc.

When "RESUME" appears on the front panel display
You can resume playback from the point where you stopped the CD/VIDEO CD (page 25).
To play from the beginning of the disc, see page 25.



What is a track?
See page 5.

What is an index?
See page 5.

What is a scene?
See page 5.

If you want to change the search mode
Press SEARCH MODE. Each time you press in case of a VIDEO CD, "SCENE SEARCH," "TRACK SEARCH" and "V (video). INDEX SEARCH" appear on the TV screen. In case of a CD, only "TRACK SEARCH" appears.

If you want to change the search speed
Two speeds are available: FF1▶▶ or FR1◀◀ (about 10 times the normal speed) and FF2▶▶ or FR2◀◀ (about 30 times).
Each time you press ◀◀ or ▶▶, the indication changes as follows:
FF1▶▶ (FR1◀◀) ⟷ FF2▶▶ (FR2◀◀)

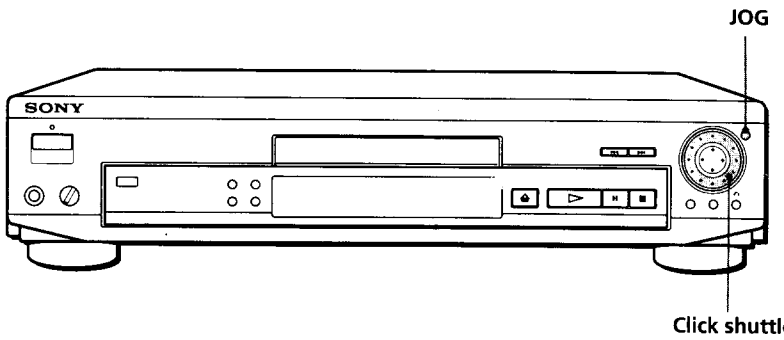
Note
Some discs do not allow you to start playing from a particular scene. In this case, if you do Scene Search before you start playing, the player starts playing from scene 1. If you do Scene Search while playing a disc, the player starts playing from the

To	Press
Stop	■
Pause	II
Play frame by frame	II or ▷
Resume play after pause	II▶
Go to the next track in Continuous Play mode	▶▶I
Go back to the preceding track in Continuous Play mode	I◀◀
Play in slow motion	▮▶
Select the track	1 SEARCH MODE repeatedly until "TRACK SEARCH" appears on the TV screen. 2 Number buttons to select the track number, then ENTER or ▷.
Select the scene before you start playing a VIDEO CD with PBC functions and during PBC playback (Scene Search)	1 SEARCH MODE repeatedly until "SCENE SEARCH" appears on the TV screen. 2 Number buttons to select the scene number, then ENTER or ▷. (To check the current scene number, press DISPLAY. The scene number appears at the left top of the TV screen.)
Locate a point while monitoring the picture (Scan)	◀◀/▶▶. You will not hear the sound during this operation. When you find the point you want, press ▷ to return to the normal speed.
Stop play and remove the disc	⏏

If you have made a mistake when you press the number button
Press CLEAR, then the correct number button.

To play at various speeds / frame-by-frame

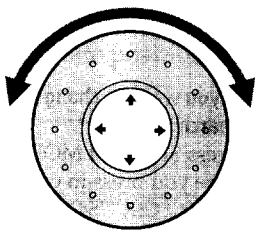
Using the click shuttle and the JOG button/indicator on the player, you can playback a CD/VIDEO CD with various speed or frame-by-frame. Each time you press JOG, it changes between shuttle mode and jog mode.



Note
Depending on the VIDEO CD, you may not do some of the operations described on the right.

■ To change the playback speed (Shuttle mode)
Turn the click shuttle. The playback speed changes depending on the turning direction and angle as follows:

FF2▶▶ (Faster than "FF1▶▶")
↕
FF1 ▶▶
↕
×2▶ (about twice the normal speed)
↕
PLAY▶ (Normal speed)
↕
SLOW1▮▶ (playback direction)
– VIDEO CD Only –
↕
SLOW2▮▶ (playback direction
– Slower than "SLOW1▮▶")
– VIDEO CD Only –
↕
PAUSE ▮▮
↕
FR1◀◀
↕
FR2◀◀ (Faster than "FR1◀◀")



If you turn the click shuttle quickly, the playback speed goes to FF2▶▶/FR2◀◀ at once.

To return to Continuous Play
Press ▷.

■ To play the VIDEO CDs frame-by-frame changing the playback speed (Jog mode – VIDEO CD Only)

1. Press JOG.
   The JOG button lights up during jog mode. When you press JOG, the playback is paused.
2. Turn the click shuttle.

Depending on the turning speed, the playback goes to frame-by-frame toward the playback direction only. If you turn the click shuttle with constant speed for a while, the playback speed goes to slow or normal.

To return to Continuous Play
Press ▷.

When playing VIDEO CDs with PBC functions
PBC playback starts automatically.

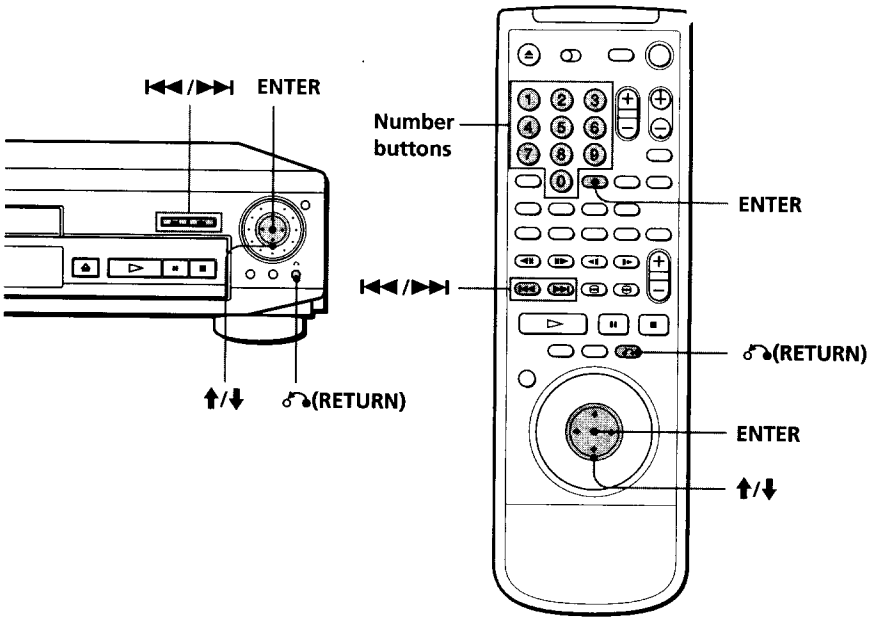
To cancel PBC playback of a VIDEO CD with PBC functions and play the disc in Continuous Play mode
There are two ways.

- Before you start playing, select the track you want using ⏮ or ⏭, then press ENTER or ▷.
- Before you start playing, select the track number using the number buttons on the remote, then press ENTER or ▷.
  "Play without PBC" appears on the TV screen and the player starts Continuous Play. You cannot play still pictures such as a menu screen.

Note
Depending on the VIDEO CD, "Press ENTER" in Step 3 may be expressed as "Press SELECT" in the instructions supplied with the disc.

Playing VIDEO CDs with PBC Functions (PBC Playback – VIDEO CD Only)

When playing VIDEO CDs with PBC functions (Ver. 2.0 discs), you can enjoy simple interactive operations, operations with search functions, etc.
PBC Playback allows you to play VIDEO CDs interactively, following the menu screen on the TV screen.
On this player, you can use the number buttons, ENTER, ⏮, ⏭, ↑/↓ and ↩ (RETURN) during PBC Playback.



1 Start playing a VIDEO CD with PBC functions, following Steps 1 to 4 in "Playing a CD/VIDEO CD" on page 14.

2 Select the item number you want.

On the player

Press ↑/↓ to select the item number.

On the remote

Press the number button of the item you want.

3 Press ENTER.

4 Follow the instructions on the menu screen for interactive operations.

Refer to the instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

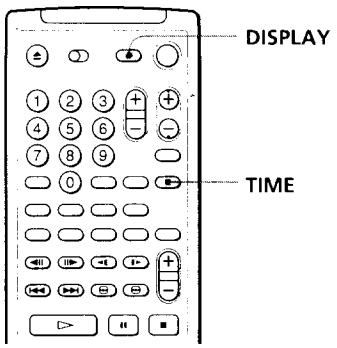
Going back to the menu screen

Press ↩, ⏮, or ⏭.

Using the On-Screen Display

DVD VIDEO CD CD

You can check the operating status of the player and the information about the disc using the on-screen display on the TV screen.



When playing back or stopping a DVD

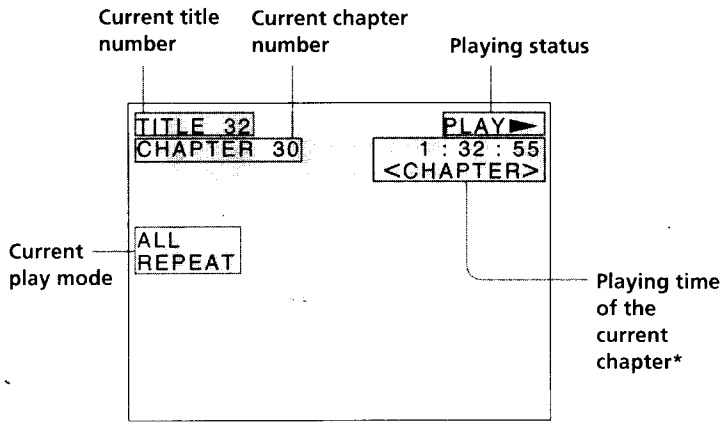
DVD

Press DISPLAY.

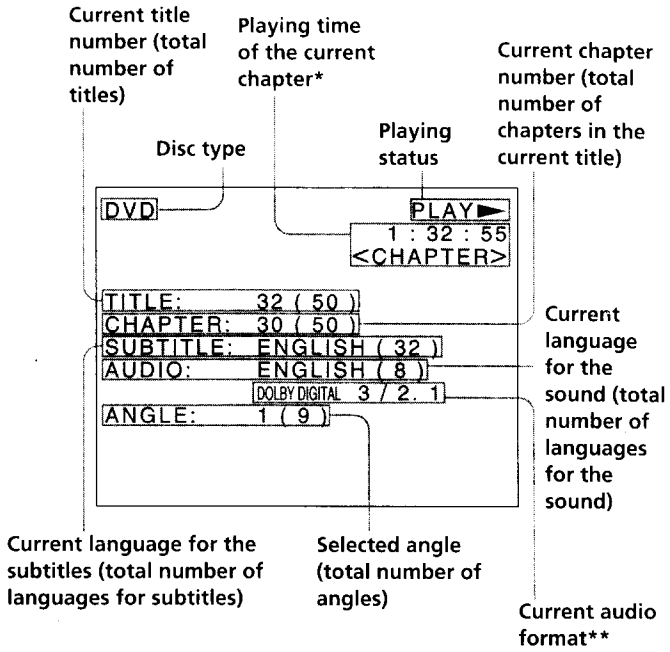
Each time you press the DISPLAY button, the on-screen display changes as follows:

On-screen display 1
↓
On-screen display 2
↓
On-screen display 3
↓
On-screen display off
↑ (back to On-screen display 1)

■Display information of the on-screen display 1 mode



■Display information of the on-screen display 2 mode


Current title number (total number of titles)
Playing time of the current chapter*
Disc type
Playing status
Current chapter number (total number of chapters in the current title)
DVD
PLAY
1 : 32 : 55
<CHAPTER>
TITLE: 32 (50)
CHAPTER: 30 (50)
SUBTITLE: ENGLISH (32)
AUDIO: ENGLISH (8)
DOLBY DIGITAL 3 / 2. 1
ANGLE: 1 (9)
Current language for the sound (total number of languages for the sound)
Current language for the subtitles (total number of languages for subtitles)
Selected angle (total number of angles)
Current audio format**

Note

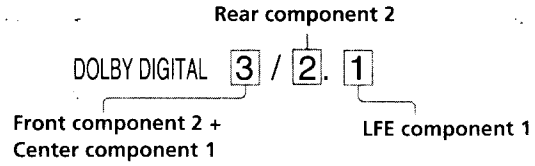
Some information may not be displayed depending on a DVD.

* In display 1 or 2 mode, each time you press TIME the information changes as shown below.

Playing time of the current chapter
↓
Remaining time of the current chapter
↓
Playing time of the current title
↓
Remaining time of the current title
↑ (back to Playing time of the current chapter)

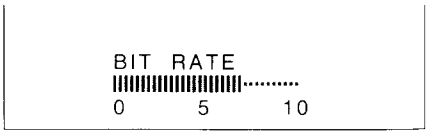
** "PCM", "MPEG" or "DOLBY DIGITAL" is displayed. In "DOLBY DIGITAL" case, the channels in the playing track are displayed by number as follows.

The case of Dolby Digital (AC-3) 5.1 ch:



■Display information of the on-screen display 3 mode

While playing a disc, the approximate bit rate of the playback picture is always displayed by Mbps (Mega bit per second).



Bit rate of the playback picture

What is bit rate?

Bit rate refers to the amount of video data per second in a disc. The higher the bit rate is, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

■Display information of the on-screen display off mode

No information is displayed. (Messages, etc., will be displayed.)

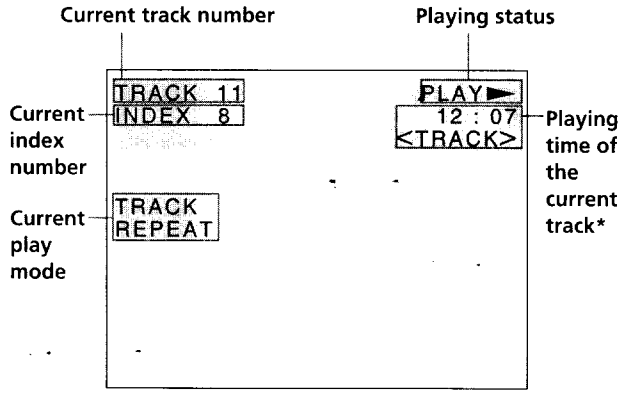
When playing back or stopping a CD/VIDEO CD (VIDEO CD) (CD)

Press DISPLAY.

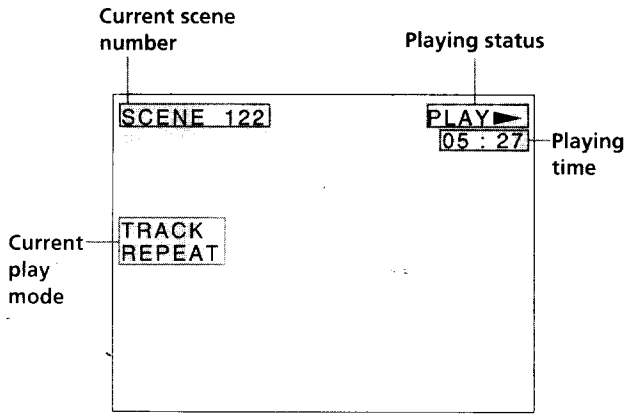
Each time you press the button, the on-screen display changes as follows:

On-screen display 1 ↓ On-screen display 2 ↓ On-screen display off → On-screen display 1

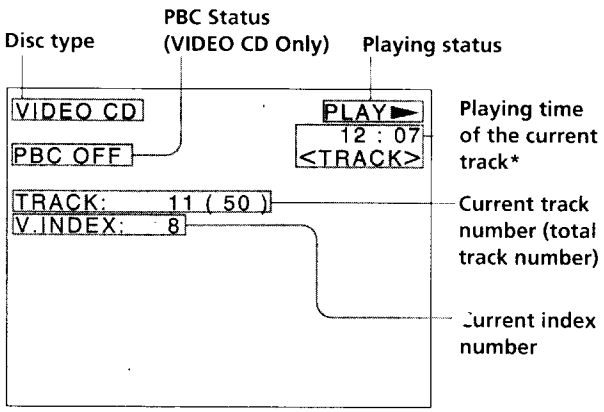
■Display information of the on-screen display 1 mode



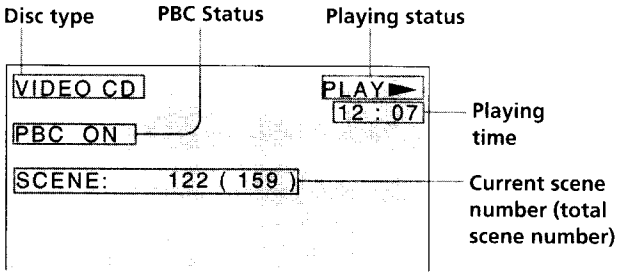
• During PBC playback (VIDEO CD Only)



■Display information of the on-screen display 2 mode



• During PBC playback (VIDEO CD Only)



* In display 1 or 2 mode, each time you press TIME, the information changes as shown below.

Playing time of the current track ↓ Remaining time of the current track ↓ Playing time of the disc ↓ Remaining time of the disc → Playing time of the current track

While you are doing Shuffle Play, Program Play, or PBC Playback, the playing time of the disc and the remaining time of the disc are not displayed.

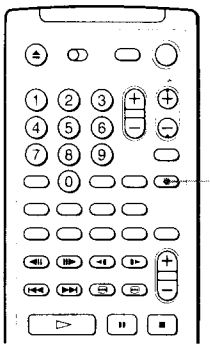
■Display information of the on-screen display off mode

No information is displayed. (Messages, etc., will be displayed.)

Using the Front Panel Display

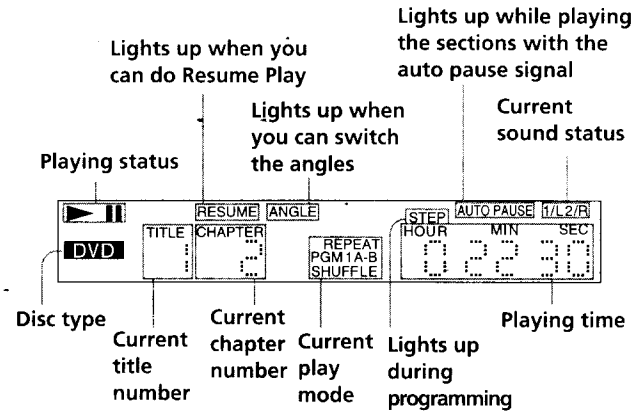
DVD VIDEO CD CD

You can check information about the disc, such as the total number of the titles or the tracks or remaining time, using the front panel display.



When playing back a DVD DVD

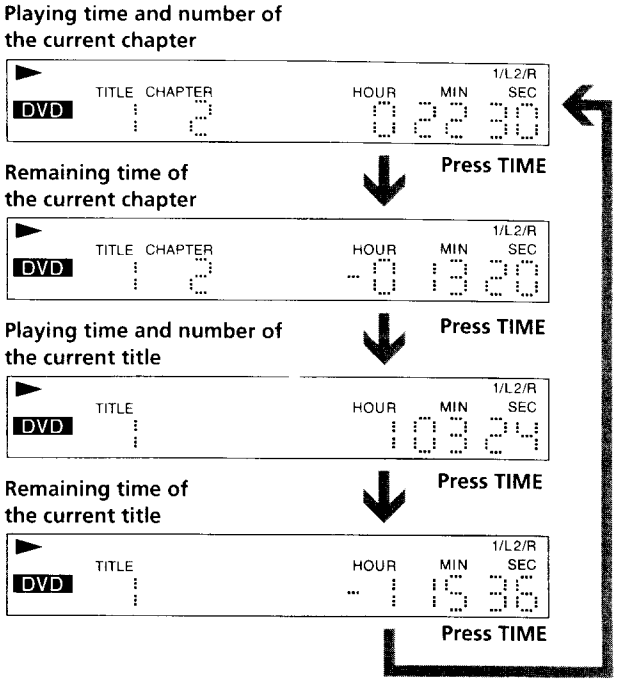
■Display information while playing the disc



■Checking the remaining time

Press TIME.

Each time you press TIME while playing the disc, the display changes as shown in the chart to the right. The time information in the on-screen display 1 and 2 also changes each time you press TIME.



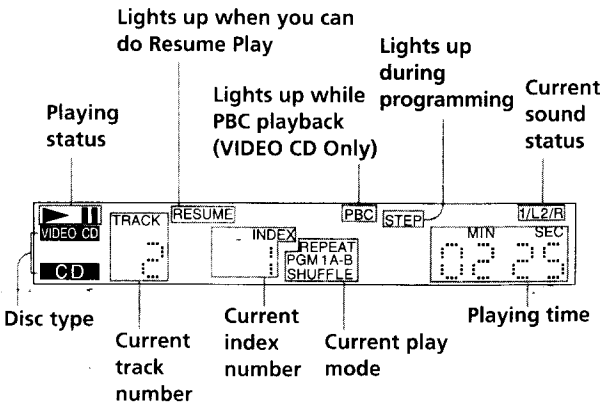
Notes

- Depending on the DVD, the chapter number or time may not appear.
- While you are doing Shuffle Play or Program Play, the playing time of the disc and the remaining time of the disc are not displayed.

When playing back a CD/VIDEO CD

VIDEO CD CD

■Display information while playing a disc



When playing VIDEO CDs with PBC functions

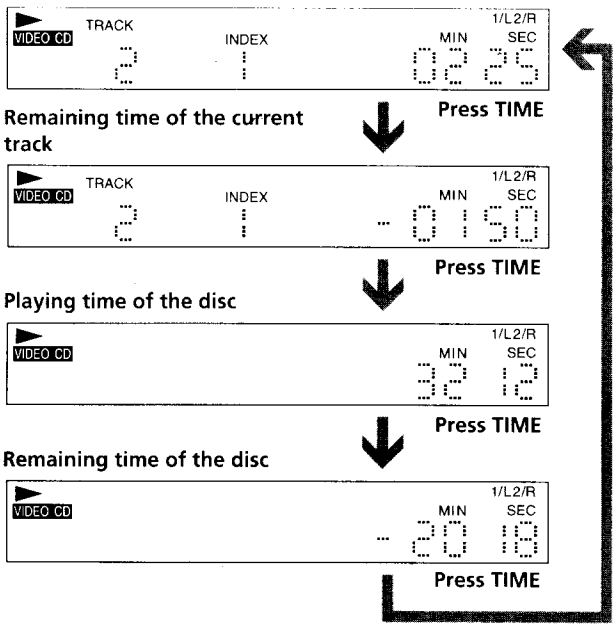
The current scene number is displayed instead of the current track number and the current index number. In this case, the front panel display does not change when you press TIME.

■Checking the remaining time

Press TIME.

Each time you press TIME while playing a disc, the display changes as shown in the chart below. The time information in the on-screen display 1 and 2 also changes each time you press TIME.

Playing time and number of the current track

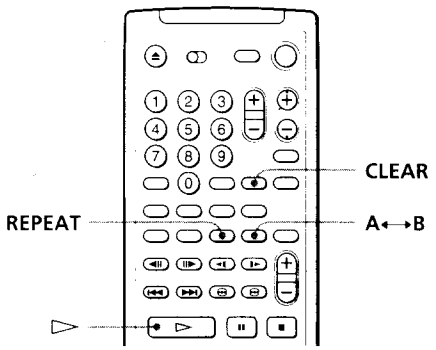


Note

While you are doing Shuffle Play, Program Play or PBC playback, the playing time of the disc and the remaining time of the disc are not displayed.

Playing Repeatedly (Repeat Play)

You can play all the titles/tracks on a disc, a single title/chapter/track or a specific portion repeatedly.



Repeating all the titles or all the tracks on a disc DVD VIDEO CD CD

In Shuffle or Program Play mode, the player repeats the titles or tracks in the shuffled or programmed order.
You cannot do Repeat Play during PBC playback of VIDEO CDs (page 17). You may not be able to do Repeat Play depending on the DVD.

Press REPEAT during playback.
"ALL REPEAT" appears on the screen and "REPEAT" appears on the front panel display. The player repeats the titles/chapters/tracks as follows:

When the disc is played in	The player repeats
Continuous Play (page 10, 14)	All the titles/all the tracks
Shuffle Play (page 23)	All the titles or tracks in random order
Program Play (page 24)	Programmed titles/chapters/tracks

To cancel repeating all the titles or all the tracks on a disc
Press CLEAR.

Repeating the current title or chapter DVD

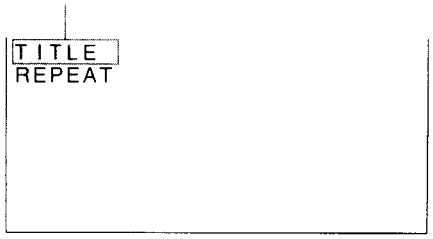
You can repeat only the current title or chapter in Continuous Play mode. You may not be able to do Repeat Play depending on the DVD.

■Repeating the current title
While the title you want is being played, press REPEAT repeatedly until "TITLE REPEAT " appears on the TV screen.
The player repeats the current title.

■Repeating the current chapter
While the chapter you want is being played, press REPEAT repeatedly until "CHAPTER REPEAT " appears on the TV screen.
The player repeats the current chapter.

"REPEAT 1" appears on the front panel display.

"CHAPTER" is displayed when you select the current chapter

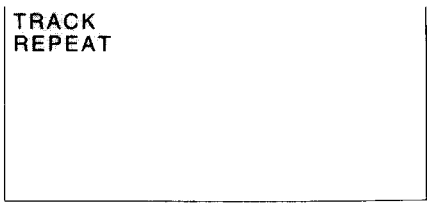


To cancel repeating the current title or chapter
Press CLEAR.

Repeating the current track VIDEO CD CD

You can repeat only the current track in Continuous Play mode.

While the track you want is being played, press REPEAT until "TRACK REPEAT " appears on the TV screen.
"REPEAT 1" appears on the front panel display and the player repeats the current track.



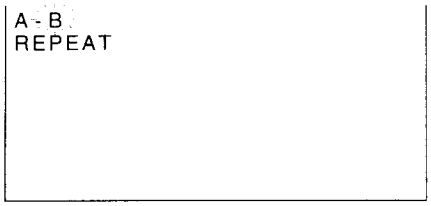
To cancel repeating the current track
Press CLEAR.

Notes
Repeat play is canceled when you turn the power off.

Repeating a specific portion (A↔B Repeat) DVD VIDEO CD CD

You can play a specific portion of a title, chapter, track repeatedly. This is useful when you want to memorize lyrics.
During PBC Playback of VIDEO CDs (page 17), this function is available only while playing moving pictures.
You may not be able to do Repeat Play depending on the DVD.

1 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press A↔B.
The starting point (point A) is set. "A-B REPEAT" is appears on the TV screen and "B" flashes.



"REPEAT A-" also appears on the front panel display and "B" flashes.

2 When you reach the ending point (point B), press A↔B again.
"A-B REPEAT" on the TV screen disappears and the player starts repeating this specific portion.

"REPEAT A-B" appears on the front panel display during A↔B repeat play.

To cancel A↔B Repeat

Press CLEAR.

To cancel setting halfway

Press CLEAR.

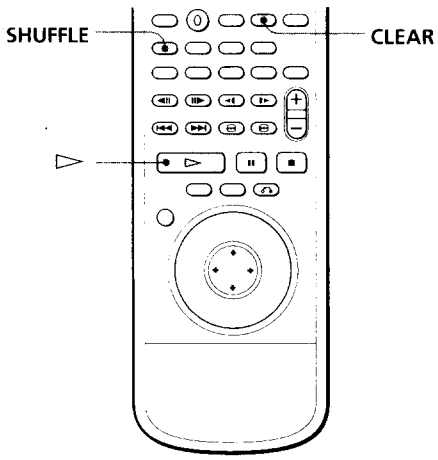
Notes

- A↔B Repeat is canceled when:
  - you open or close the disc tray
  - you turn the power off
- When you set A↔B Repeat, the settings for Shuffle Play and Program Play are canceled.
- You may not be able to set A↔B Repeat, depending on the scene of a DVD or a VIDEO CD.

Playing in Random Order (Shuffle Play)

DVD VIDEO CD CD

You can have the player "shuffle" titles, chapters or tracks and play them in a random order.



1 Press SHUFFLE.

2 Press ▷.
(During playback, the player starts Shuffle Play when you follow the step 1.)

To cancel Shuffle Play

Press CLEAR.

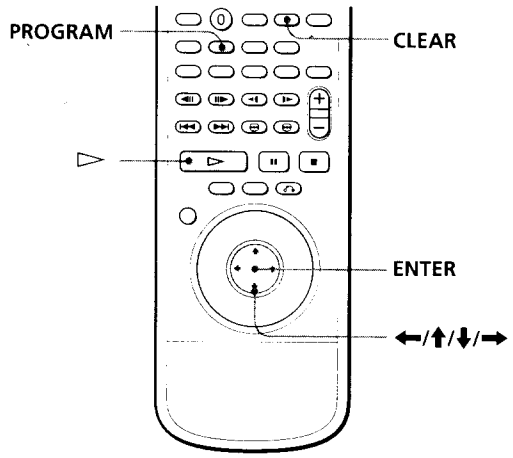
Notes

- The Shuffle Play is canceled when:
  - you open or close the disc tray
  - you turn the power off
- You may not be able to do Shuffle Play depending on the DVD.

Creating Your Own Program (Program Play)

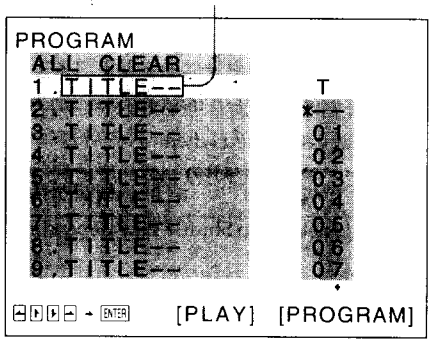
DVD VIDEO CD CD

You can arrange the order of the titles, chapters or tracks on the disc and create your own program. The program can contain up to 99 titles, chapters and tracks.

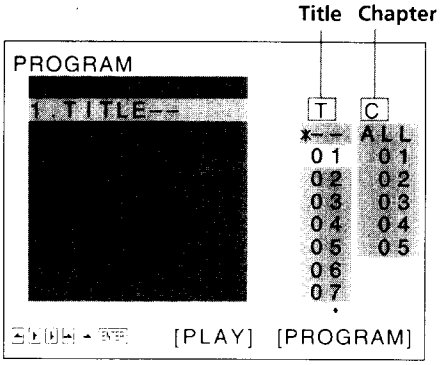


1 Press PROGRAM.
The programming display appears.

"TRACK__" is displayed when you play a VIDEO CD or a CD.



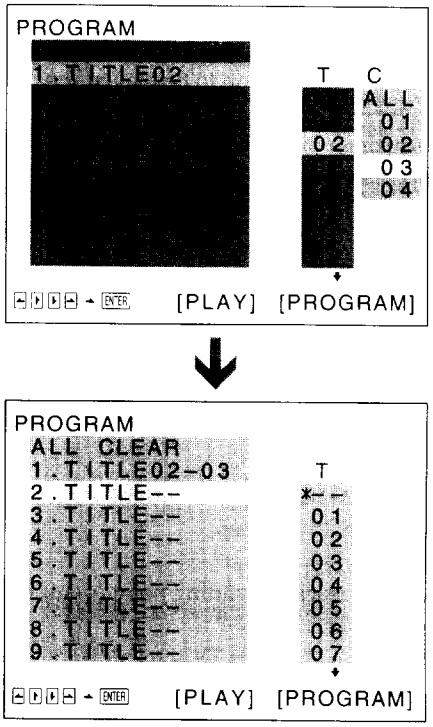
2 Press →.
"01" is highlighted.



3 Select the title, chapter or track you want to program using ↑/↓, then press ENTER.
For example, select title or track 2.
(You can also use the number buttons and ENTER button to select. In this case, the selected number is displayed on the screen.)

■ When playing a DVD

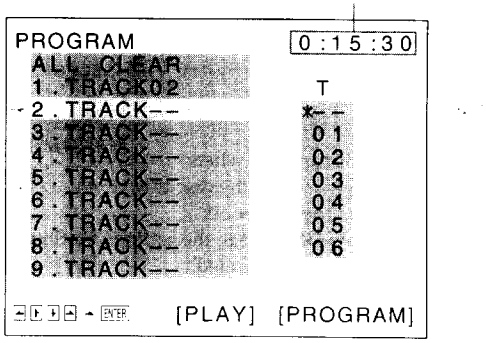
When both titles and chapters are recorded on the disc, select the title, then the chapter.



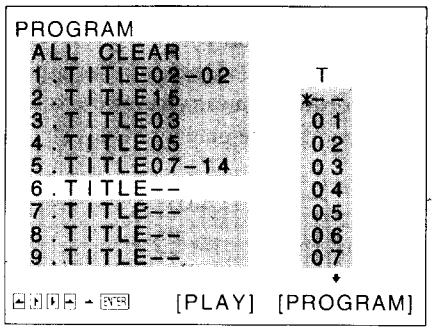
■ When playing a VIDEO CD or CD

Select the track you want to program.

Total time of the programmed tracks



4 To program other titles, chapters or tracks, repeat Step 3.
The programmed titles, chapters or tracks are displayed from 02 in order.



5 Press ▷ to start Program Play.

To cancel Program Play
Press CLEAR.

To cancel programming
Press PROGRAM.

To change programming
1 In Step 2, select the program number of the title, chapter or track you want to change using ↑/↓.
2 Follow Step 3 for new programming.

To cancel the programmed order
To cancel all the titles, chapters or tracks in the programmed order, select "ALL CLEAR" in Step 2.
To cancel the selected program, select the program using ↑/↓ in Step 2 then press CLEAR, or select "--" in Step 3 and then press ENTER.

The program remains even after the Program Play ends
When you press ▷, you can play the same program again.

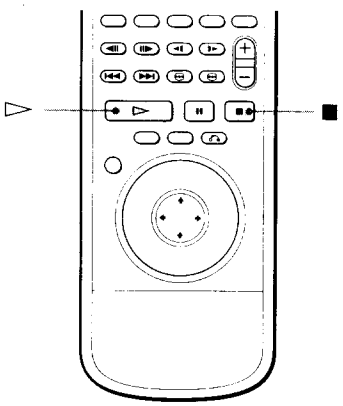
You can do Repeat Play or Shuffle Play of the programmed titles, chapters or tracks
During Program Play, press REPEAT or SHUFFLE.

Notes
- The number of titles, chapters or tracks displayed are that of the titles, chapters or tracks recorded on a disc.
- The program is canceled when:
  - you open or close the disc tray
  - you turn the power off
- You may not be able to do Program Play depending on the DVD.
- While you are doing PBC playback, you cannot set a program unless you stop playback once.

Resuming Playback from the Point Where You Stopped a Disc (Resume Play)

DVD VIDEO CD CD

The player stores the point where you stopped a disc if "RESUME" appears on the front panel display. In this case, you can resume playback from that point.
As long as you do not open the disc tray, Resume Play is available even if you turn the power off.



1 While playing a disc, press ■ to stop playback.
"RESUME" appears in the front panel display and "When playing next time, disc restarts from point you stopped." appears on the TV screen.
If "RESUME" does not appear, Resume Play is not available.

2 Press ▷.
The player starts playback from the point you stopped the disc in Step 1.

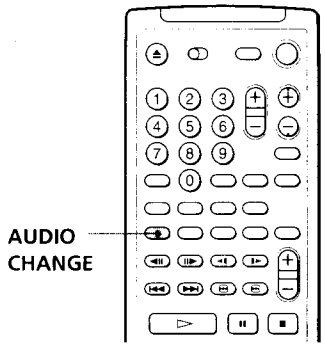
To play from the beginning of the disc
When "RESUME" appears on the front panel display before you start playing, press ■ to turn off "RESUME," then press ▷.

Notes
- You may not do Resume Play depending on the DVD.
- Resume Play is not available in Shuffle or Program Play mode.
- Depending on where you stopped the disc, the player may resume playback from a different point.
- The point where you stopped playing is cleared when:
  - you open or close the disc tray
  - you disconnect the AC power cord
  - you change the play mode
  - you start playback after selecting a title, chapter or track
  - you change the settings of "DVD MENU", "AUDIO" or "SUBTITLE" in "LANGUAGE SETUP" in the setup display
  - you change the settings of "TV TYPE", "PARENTAL CONTROL" in "INITIAL SETUP 1" in the setup display

Changing the Sounds

DVD VIDEO CD CD

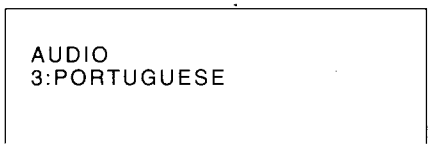
With DVDs on which multilingual sounds are recorded, you can select the language you want while playing the DVD.
With multiplex VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. In this case, the sound loses the stereo effect.



Press AUDIO CHANGE while playing a disc.
Each time you press the button, the indication and the language/sound from the speakers change as follows:

■When playing a DVD

AUDIO 1 → AUDIO 2 → .....



■When playing a VIDEO CD or a CD

1/L : The sound of the left channel
↓
2/R : The sound of the right channel
↓
Stereo : The standard stereo sound (1/L 2/R)

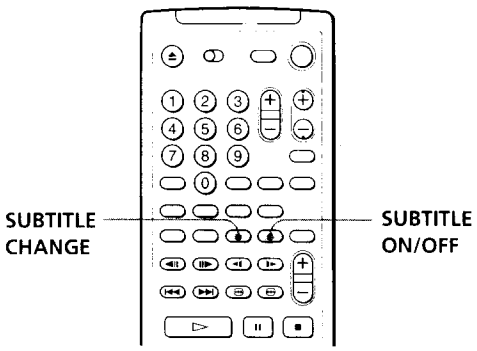
Notes

- Depending on the DVD, you may not be able to change the languages even if multilingual sounds are recorded on the DVD.
- While playing the CD/VIDEO CD, the standard stereo playback will be resumed when:
  - you open or close the disc tray
  - you turn the power off
- While playing the DVD, the sound may be changed when:
  - you open or close the disc tray
  - you change the title
- If the language is indicated in a four-digit number, refer to the Language Code List on page 46.

Displaying the Subtitles

DVD

With DVDs on which subtitles are recorded, you can turn the subtitles on and off whenever you want while playing the DVD. With DVDs on which multilingual subtitles are recorded, you can change the subtitles whenever you want while playing the DVD.



Turning the Subtitles On and Off

Press SUBTITLE ON/OFF while playing a DVD.
Subtitles appear on the TV screen.

To turn off the subtitles

Press SUBTITLE ON/OFF again.

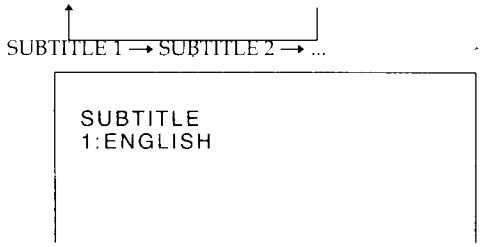
Notes

- When playing the DVD on which no subtitles are recorded, no subtitles appear even if you press SUBTITLE ON/OFF.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on the DVD.
- Depending on the DVD, you may not be able to turn the subtitles off.
- If the language is indicated in a four-digit number, refer to the Language Code List on page 46.

Changing the Subtitle Language

When subtitles are turned off, press SUBTITLE ON / OFF to turn on the subtitles.

While playing a DVD, press SUBTITLE CHANGE repeatedly until the subtitles you want appear on the TV screen.

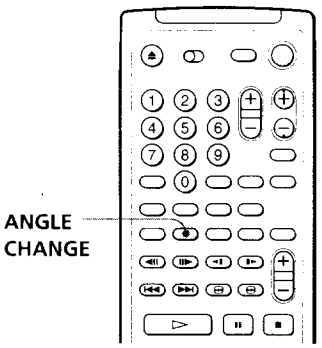


Notes

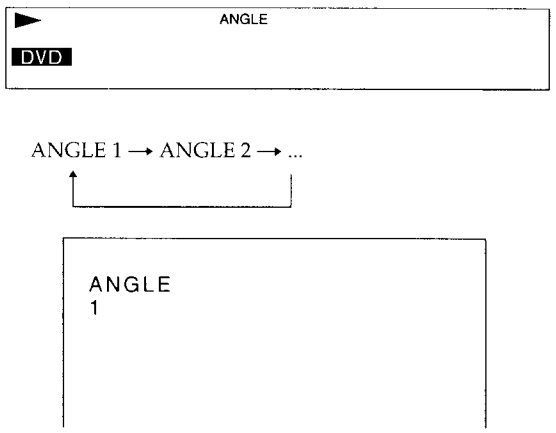
- The type and number of languages for subtitles vary from disc to disc.
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on the DVD.
- While playing the DVD, the subtitle may be changed when:
  - you open or close the disc tray
  - you change the title

Changing the Angles DVD

With DVDs on which various angles (multi-angles) for a scene are recorded, you can change the angles whenever you want while playing the DVD.



When "ANGLE" appears on the front panel display while playing a DVD, press ANGLE CHANGE repeatedly until you get the angle you want.



You can specify the angle beforehand

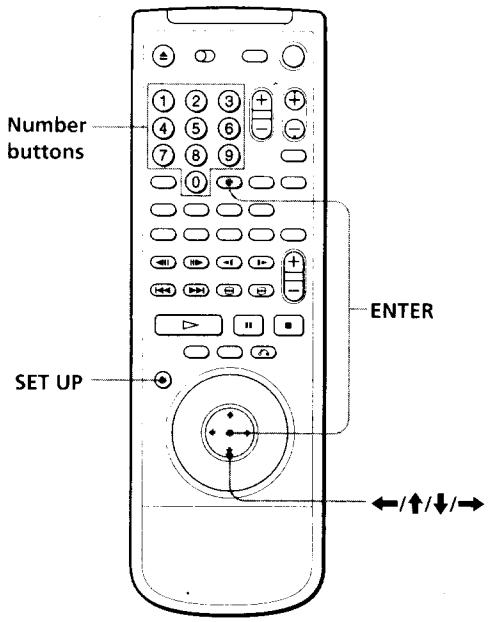
Specify the angle when "ANGLE" is not displayed on the front panel display. When a scene on which multi-angles are recorded comes, the angle is automatically selected.

Notes

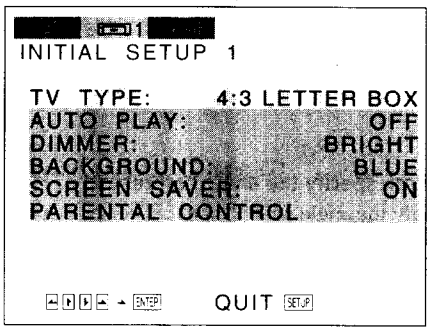
- The number of angles varies from disc to disc or from scene to scene. The number of angles that can be changed on a scene is that of angles recorded for that scene.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

Limiting Playback by Children (Parental Control) DVD

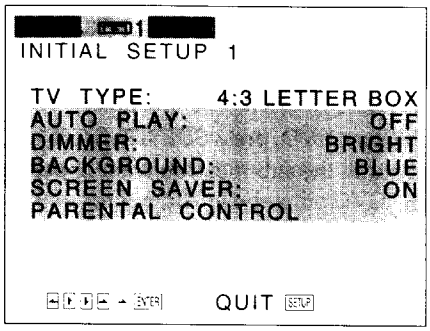
Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows you to set a playback limitation level.



1 Press SET UP to display the setup display on the TV screen before playing.



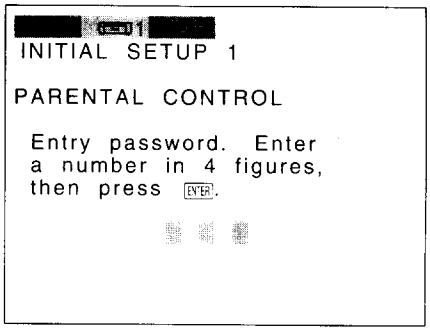
2 Select "INITIAL SETUP 1" using ←/→, then press ENTER.



3 Select "PARENTAL CONTROL" using ↑/↓, then press ENTER.

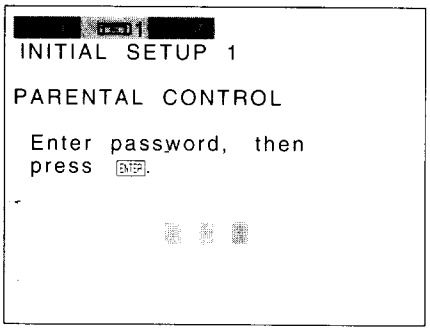
■When you have not entered a password yet

The display for entering a password appears.

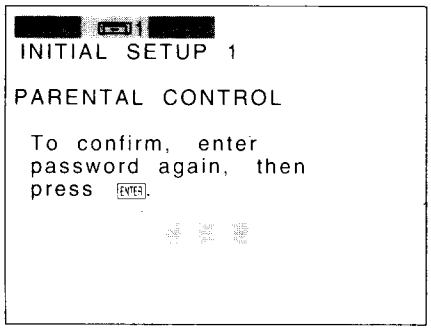


■When you have already entered a password

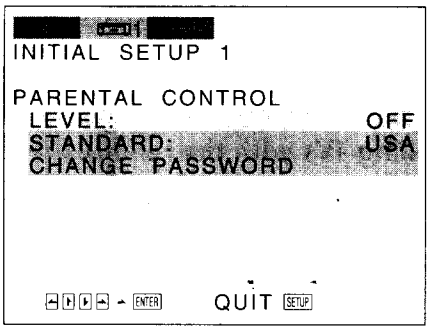
The display for confirming the password appears. Skip Step 4.



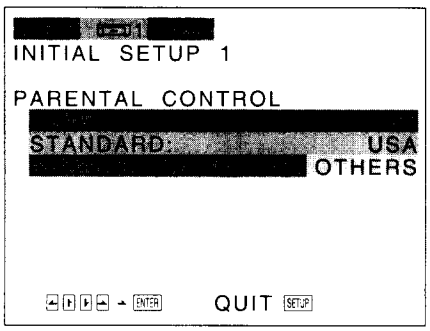
4 Enter a password in 4 figures using the number buttons, then press ENTER.
The figures change to asterisks (✳), and the display for confirming the password appears.



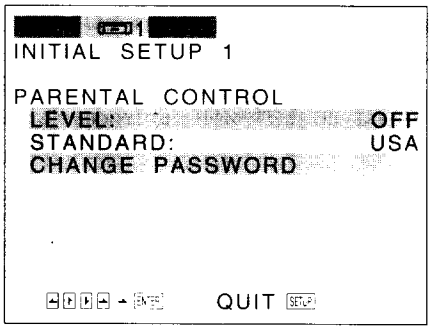
5 To confirm your password, enter it using the number buttons, then press ENTER.
The display for setting the playback limitation level and changing the password appears.



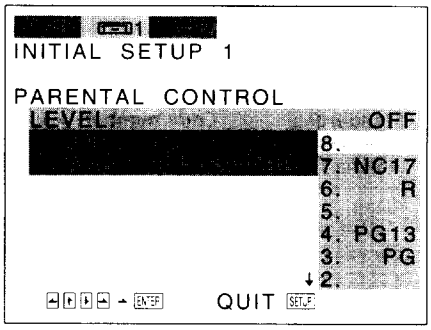
6 Select "STANDARD" using ↑/↓, then press →.



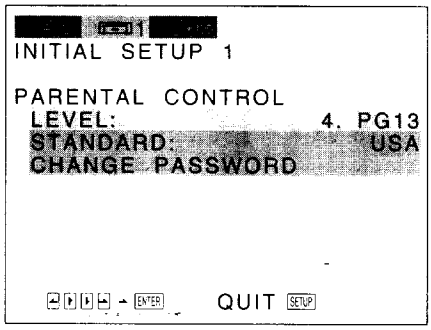
7 Select an area as the standard for playback limitation level using ↑/↓, then press →.
When you select "OTHERS", select and enter the standard code in the table below using number buttons.



8 Select "LEVEL" using ↑/↓, then press →.



9 Select the level you want using ↑/↓, then press ENTER.



The lower the value is, the more strict the limitation.

To return to the normal screen
Press SET UP.

To turn off the Parental Control function and play the DVD after entering your password
Set "LEVEL" to "OFF" in Step 9, then press ▷.

To change the password

1 In Step 5, select "CHANGE PASSWORD" using ↑/↓, then press → or ENTER.
The display for changing the password appears.
2 Follow Steps 4 and 5 to enter a new password.

If you have forgot your password

Enter six digits number "199703" in Step 4 to clear the current password. To enter a new password, follow the procedure from Step 4 again.

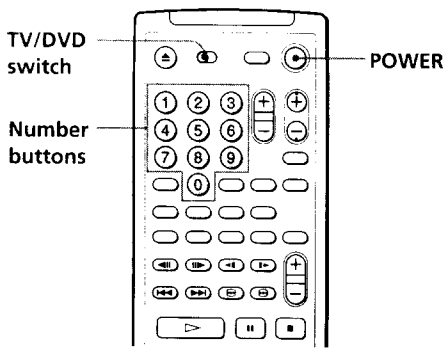
Notes

- When you play DVDs which do not have the Parental Control function, playback cannot be limited on this player.
- When you do not set a password, you cannot change the settings for playback limitation.
- Depending on the DVD, you may be asked to change the parental control level while playing the disc. In this case, enter the password, then change the level.
When you stop playing the DVD, the level returns to the original level.

Standard	Code number
Austria	2046
Belgium	2057
Canada	2079
China	2092
Denmark	2115
Finland	2165
France	2174
Germany	2109
Hong Kong	2219
Indonesia	2238
Italy	2254
Japan	2276
Malaysia	2363
Netherlands	2376
Norway	2379
Philippines	2424
Singapore	2501
Spain	2149
Sweden	2499
Switzerland	2086
Taiwan	2543
Thailand	2528
United Kingdom	2184

Controlling the TV or the AV receiver with the Supplied Remote

If you adjust the remote signal, you can control your TVs with the supplied remote. Default setting is to control Sony TVs with the SONY mark.
When you connect the player to a Sony AV receiver, you can also set the input of the receiver to this player with the supplied remote .



Controlling TVs with the remote

1 Slide TV/DVD switch to TV.
2 Hold down POWER, and enter your TV's manufacturer's code in the table below using the number buttons. Then release POWER.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

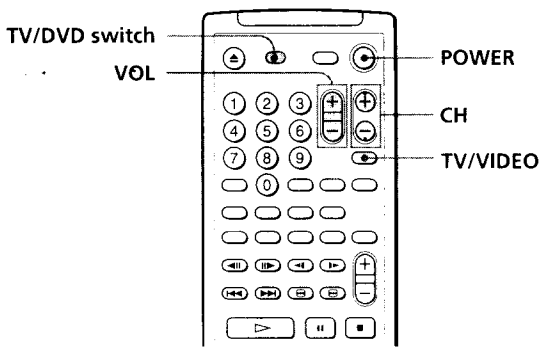
Notes

- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote commander, the code number automatically resets to 01 (Sony). Reset the appropriate code number.

Manufacturer	Code number
Sony (default)	01
Akai	04
AOC	04
Centurion	12
Coronado	03
Curis-Mathes	12
Daytron	12
Emerson	03,04,14
Fisher	11
General Electric	06,10
Gold Star	03,04,17
Hitachi	02,03
J.C.Penny	04,12
JVC	09
KMC	03
Magnavox	03,08,12
Marantz	04,13
MGA/Mitsubishi	04,12,13,17
NEC	04,12

Manufacturer	Code number
Panasonic	06,19
Philco	03,04
Philips	08
Pioneer	16
Portland	03
Quasar	06,18
Radio Shack	05,14
RCA	04,10
Sampo	12
Sanyo	11
Scott	12
Sears	07,10,11
Sharp	03,05,18
Sylvania	08,12
Teknika	03,08,14
Toshiba	07
Wards	03,04,12
Yorx	12
Zenith	15

When you set the TV/DVD switch to TV, you can control your TV using the keys below.



By pressing	You can
POWER	Turn on or off the TV
TV/VIDEO	Select the input source for the TV
VOL	Adjust the volume of the TV
CH	Change the channel of the TV
Number buttons and ENTER	Select the channel of the TV

Note

Depending on the TV, you may not be able to control your TV or to use some buttons above.

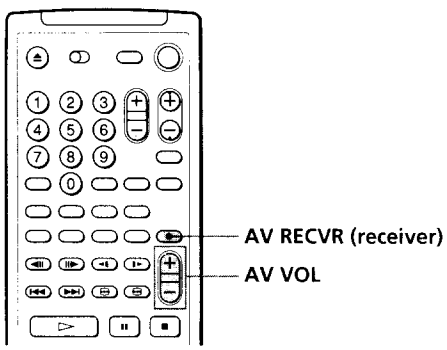
Controlling a Sony AV receiver with the remote

1. Slide TV/DVD switch to DVD.
2. Hold down POWER, and enter your AV receiver's input connector code (see the table below) using the number buttons.* Then release POWER.

Receiver connector	Code number
VIDEO 1	91
VIDEO 2	92
VIDEO 3	93
AUX 1	94
LD/DVD (default setting)	95
AC-3	96
TV	97

* If you connect the player to the SONY Mini Hi-Fi Component System, enter "98".

When you press AV RECVR on the supplied remote, you can set the input of AV receiver to the player.** You can also change the volume of the sound using AV VOL.



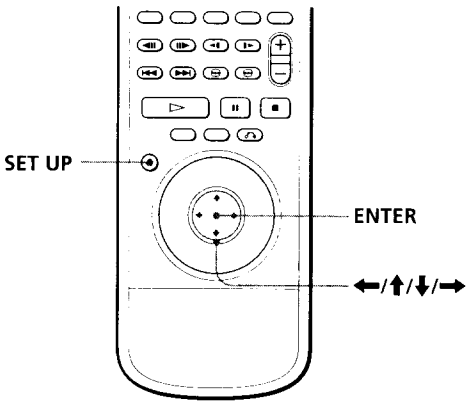
** If you connect the player to the SONY Mini Hi-Fi Component System, press AV RECVR repeatedly to change the input of the system.

Note

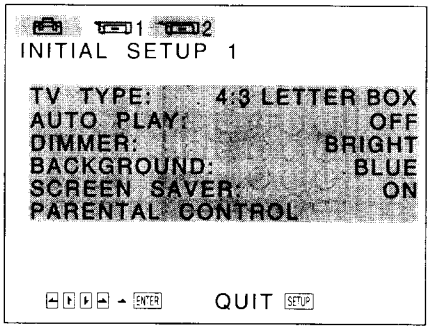
You may not be able to control some AV receivers.

Using the Setup display

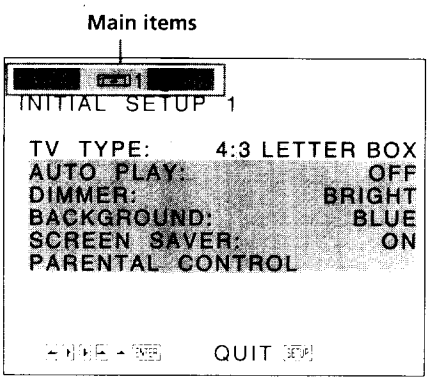
Using the setup display, you can do the initial setup, adjusting the picture and sound quality, setting the various outputs, etc. You can also set a language for the subtitles and the setup display, limit playback by children, etc.
For details on each setup display item, see pages 33 to and 35.
The setup display items are listed in page 45.



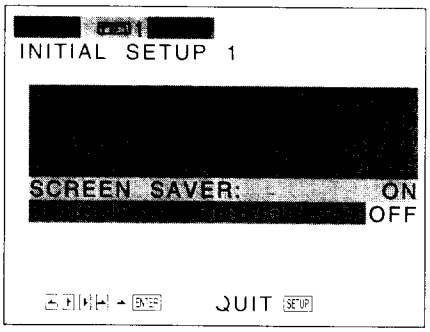
1 Press SET UP to display the setup display on the TV screen.



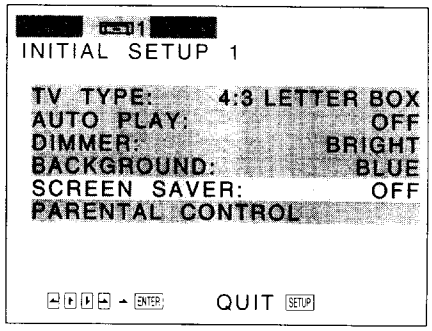
2 Select the main item you want using ←/→, and then press ENTER.
The selected main item is highlighted.



3 Select the item you want using ↑/↓, then press → or ENTER.



4 Select the setting you want using ↑/↓, then press ENTER.



To cancel using the setup display on the way

Press SET UP.

Note

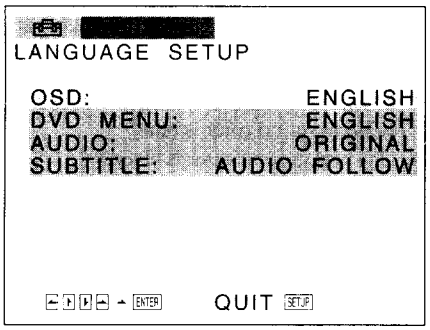
Some setup display items require operations other than selecting the setting. For details on these items, see the relevant pages.

Setting the Language for Display and Sound (LANGUAGE SETUP)

Select "🧰" after pressing SET UP.
"LANGUAGE SETUP" allows you to set various languages for on-screen display or sound.
Default settings are underlined.

Note

When you select a language that is not recorded on the DVD, one of the recorded languages is automatically selected except for "OSD".



■OSD (On-Screen Display)

Switches the language for the on-screen display.

- ENGLISH
- FRENCH
- SPANISH

■DVD MENU

Switches the language for the DVD menu.

- ENGLISH
- FRENCH
- SPANISH
- ITALIAN
- GERMAN
- DUTCH
- PORTUGUESE
- CHINESE
- JAPANESE
- OTHERS➡

  When you select "OTHERS," select and enter the language code from the list using the number buttons (page 46).

■AUDIO

Switches the language for the sounds.

- ORIGINAL : the language given the priority in the disc
- ENGLISH
- FRENCH
- SPANISH
- ITALIAN
- GERMAN
- DUTCH
- PORTUGUESE
- CHINESE
- JAPANESE
- OTHERS➡

  When you select "OTHERS," select and enter the language code from the list using the number buttons (page 46).

■SUBTITLE

Switches the language for the subtitles.

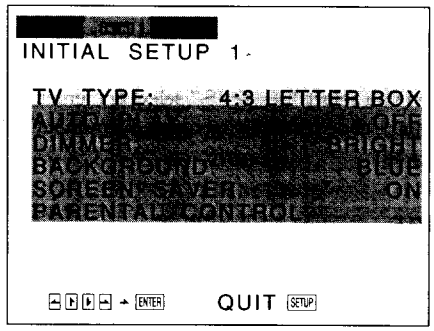
- AUDIO FOLLOW*
- ENGLISH
- FRENCH
- SPANISH
- ITALIAN
- GERMAN
- DUTCH
- PORTUGUESE
- CHINESE
- JAPANESE
- OTHERS➡

  When you select "OTHERS," select and enter the language code from the list using the number buttons (page 46).

* When you select "AUDIO FOLLOW," the language for the subtitles change according to the language for the sound.

Settings for Display (INITIAL SETUP 1)

Select "1" after pressing SET UP.
"INITIAL SETUP 1" allows you to set the display according to the playback conditions.
Default settings are underlined.



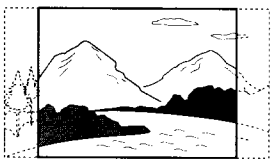
■TV TYPE

Selects the aspect ratio of the TV to be connected.

- 4:3 LETTER BOX: when you connect a normal TV to the player. Displays the wide picture with bands displayed on the upper and lower portions of the screen.
- 4:3 PAN SCAN : when you connect a normal TV to the player. Displays the wide picture on the whole screen with a portion automatically cut off.
- 16:9: when you connect a wide-screen TV to the player

4:3 LETTER BOX

4:3 PAN SCAN



16:9

Note

Depending on the DVD, "4.3 LETTER BOX" may be selected automatically instead of "4.3 PAN SCAN" and vice versa.

■AUTO PLAY

Selects the setting of Auto Play when you connect the AC power cord to the AC outlet.

- OFF: does not start playing with TIMER, DEMO1 or DEMO2.
- TIMER: starts playing a disc automatically when you connect the AC power cord to the AC outlet. By connecting a timer (not supplied), you can start playing at any time you want.
- DEMO1: starts playing the demonstration 1 automatically.
- DEMO2: starts playing the demonstration 2 automatically.

■DIMMER

Adjusts the lighting of the front panel display.

- BRIGHT: makes the front panel display bright.
- DARK: makes the front panel display dark.
- OFF: turns off the lighting of the front panel display.

■BACKGROUND

Selects the background color of the TV screen in stop mode.

- BLUE: The background color is blue.
- BLACK: The background color is black.

■SCREEN SAVER

Turns on and off the screen saver. If you turn on the screen saver, the screen saver image appears when you leave the player or the remote in pause or stop mode for 15 minutes. The screen saver is useful to prevent your display from damage.

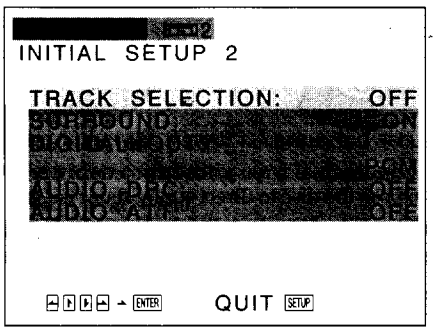
- ON: turns on the screen saver.
- OFF: turns off the screen saver.

■PARENTAL CONTROL

Sets a password and playback limitation level when you play DVDs with playback limitation for children.
For details, see page 28.

Settings for Sound (INITIAL SETUP 2)

Select "2" after pressing SET UP.
"INITIAL SETUP2" allows you to set the sound according to the playback conditions.
Default settings are underlined.



■TRACK SELECTION

Gives the Dolby Digital (AC-3) format priority when you play a DVD on which multiple audio formats are recorded. If multiple audio channels are recorded in Dolby Digital (AC-3) format, the higher-numbered channel audio recorded in Dolby Digital (AC-3) format is played.

- OFF: No priority given.
- AUTO: Priority given.

Notes

- When you set this item to "ON", the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP."
  The "TRACK SELECTION" setting has higher priority than that of "AUDIO" settings in "LANGUAGE SETUP" (page 33).
- Depending on the DVD, the audio with priority may be predetermined. In this case, you cannot give priority to the Dolby Digital (AC-3) format by selecting "AUTO."

■SURROUND

Switches the mixing down methods when you play a DVD on which the sound in Dolby Digital (AC-3) format is recorded.

- ON: when the player is connected to an audio component that conforms to Dolby surround, Dolby Pro Logic surround, etc.
- OFF : when the player is connected to a normal audio component.

■DIGITAL OUT

Switches the methods of outputting audio signals from the DIGITAL OUT OPTICAL and COAXIAL connectors on the rear panel of the player.

- PCM: when the player is connected to an audio component without a built-in Dolby Digital (AC-3) decoder. The Dolby Digital track is output also in 2 channels and the surround component depends on the "SURROUND" setting.
- DOLBY DIGITAL/PCM: when the player is connected to audio component with a built-in Dolby Digital (AC-3) decoder.

Note

Select the setting correctly. Otherwise, no sound or strange sound will come out from the speakers, affecting your ears or causing the speakers to be damaged.

■AUDIO DRC (Dynamic Range Control)

Makes the sound clear with the volume turned down at night, etc. when you play a DVD. This affects the output from the DIGITAL OUT connectors only when "DIGITAL OUT" in "INITIAL SETUP 2" is set to "PCM," and the output from the LINE OUT (AUDIO 1,2).

- OFF: Normally select this position.
- ON: makes the sound clear even if you turned the volume down.

Note

When you play DVDs without the AUDIO DRC function, there may be no effect on the sound.

■AUDIO ATT (attenuation)

Selects the setting of the output from the LINE OUT (AUDIO 1, 2) connectors according to audio equipment to be connected.

- OFF: turns off the audio attenuation.
- ON: reduces the audio output level so that no sound distortion occurs.

Note

The setting does not affect the output from the DIGITAL OUT connectors.

Precautions

On safety

- Caution – The use of optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- Should the AC power cord (mains lead) need to be changed, have it done at a qualified service shop only.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.

On adjusting volume

- Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

On cleaning

- Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

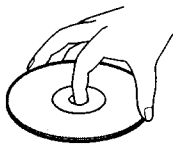
If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

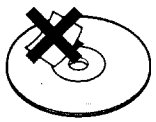
IMPORTANT NOTICE
Caution: The enclosed DVD Player is capable of holding a still video image or Setup display image on your television screen indefinitely. If you leave the still video image or Setup display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are very susceptible.

Notes on Discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
  If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.





Not this way

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.

- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

The power is not turned on.

➡If the indicator above the POWER button is not lit, check that the AC power cord is connected securely.

There is no picture.

➡Check that the player is connected securely.
➡The video connecting cord is damaged. Replace it with a new one.
➡Make sure you connect the player to the video input connector on the TV. (page 6)
➡Make sure you turn on the TV.
➡Make sure you select the video input on the TV so that you can view the pictures from the player.

There is no sound.

➡Check that the player is connected securely.
➡The audio connecting cord is damaged. Replace it with a new one.
➡Make sure you connect the player to the audio input connectors on the amplifier. (page 6)
➡Make sure you turn on the TV and the amplifier.
➡Make sure you select the appropriate position on the amplifier so that you can listen to the sound from the player.
➡The player is in pause mode or in Slow-motion Play mode. Press ▷ to return to normal play mode.
➡Fast forward (FF1 or FF2) or fast reverse (FR1 or FR2) is performed. Press ▷ to return to normal play mode.

The remote does not function.

➡Remove any obstacles between the remote and the player.
➡Use the remote near the player.
➡Point the remote at the remote sensor ■ on the player.
➡Replace all the batteries in the remote with new ones if they are weak.

The picture noise appears.

➡Clean the disc.
➡If video from your DVD player has to go through your VCR to get to your TV, the copy-protection applied to some DVD programs could affect picture quality. If you still experience problems after checking your connections, please try connecting your DVD player directly to your TV's S-input, if your TV is equipped with that input.

The sound noise is heard.

➡Clean the disc.

The sound distortion occurs.

➡In the setup display, set "AUDIO ATT" in "INITIAL SETUP 2" to "ON."

The disc does not play.

➡There is no disc inside ("INSERT DISC" appears on the TV screen).
Insert a disc.
➡Insert the disc with the playback side facing down on the disc tray correctly.
➡Place the disc on the disc tray correctly.
➡Clean the disc.
➡The player cannot play CD-ROMs, etc. (page 5)
Insert a DVD, a VIDEO CD, or CD.
➡Check the region code of the DVD. (page 4)
➡Moisture has condensed inside the player. Remove the disc and leave the player turned on for about half an hour. (page 36)

The player does not play from the beginning when playing a disc.

➡Repeat Play, Shuffle Play or Program Play has been selected. Press CLEAR. (page 22 to 25)
➡Resume Play has been selected.
Press ■ on the front panel or on the remote before you start playing. (page 25)
➡A title menu or a DVD menu automatically appears on the TV screen when you play your DVD, or a setup display automatically appears on the TV screen when you play your VIDEO CD with PBC functions.

The DVD does not play when you select a title.

➡The Parental Control functions. (page 28)

The player starts playing the DVD automatically.

➡The DVD features the auto playback function.
➡In the setup display, set "AUTO PLAY" to "OFF" under "INITIAL SETUP 1." Otherwise the player starts playback automatically.

Stopping playback, Search, Slow-motion Play, Repeat Play, Shuffle Play or Program Play, etc., cannot be done.

➡Depending on the disc, you may not do some of the operations above.

Messages do not appear on the TV screen in the language you want.

➡In the setup display, select the language for the on-screen display in "OSD" under "LANGUAGE SETUP." (page 33)

The language for the sound cannot be changed when you play a DVD.

➡Multilingual sound is not recorded on the DVD.

➡Changing the language for the sound is prohibited on the DVD.

The language for the sound changes automatically.

➡When you set the "TRACK SELECTION" in "INITIAL SETUP 2" to "ON" in the setup display, the language may change depending on the "AUDIO" settings in "LANGUAGE SETUP." The "TRACK SELECTION" setting has higher priority than that of "AUDIO" settings. (page 35)

The language for the subtitles cannot be changed when you play a DVD.

➡Multilingual subtitles are not recorded on the DVD.

➡Changing the language for the sub-titles is prohibited on the DVD.

The subtitles cannot be turned off when you play a DVD.

➡Depending on the DVD, you may not be able to turn the subtitles off.

The angles cannot be changed when you play a DVD.

➡Multi-angles are not recorded on the DVD.

➡Change the angles when "ANGLE" appears on the front panel display. (page 27)

➡Changing the angles is prohibited on the DVD.

The aspect ratio of the screen cannot be changed even though you set "TV TYPE" in "INITIAL SETUP 1" in the setup display when you play a wide picture.

➡The aspect ratio is fixed on your DVD.

➡Depending on the TV, you cannot change the aspect ratio.

➡If the S-video output cable is not directly connected to the TV such as when the selector or AV amplifier is connected between the CD/DVD player and the TV using the S-video jack, you may not be able to change the aspect ratio.

The menu screen does not appear when you play a VIDEO CD.

➡The VIDEO CD does not feature PBC functions.

➡Follow the correct operating procedure. (Also refer to the instructions supplied with the disc.)

The sound loses stereo effect when you play a VIDEO CD or a CD.

➡"1/L" or "2/R" appears on the front panel display.
On the remote, press AUDIO CHANGE repeatedly until "1/L 2/R " appears. (page 26)

➡Make sure you connect the player appropriately. (pages 10, 11)

The player does not operate properly.

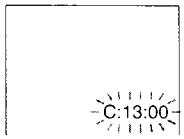
➡Static electricity, etc., may affect the player's operation.
Disconnect the AC power cord once, then connect it again.

The numbers or letters of 5 characters is displayed on the screen.

➡Self diagnosis function was activated. See the table in page 39 and treat the player appropriately.

Self-diagnosis function

In the self-diagnosis function works to prevent the CD/DVD player from malfunctioning, a five-digit service number (combination of a letter and figures) flashes on the screen. In this case, check the following table.



First three digits	Cause and/or Corrective Action
C13	• The disc is dirty. ➡ Clean the disc with a cleaning cloth. (page 36)
C31	• The disc is not inserted correctly. ➡ Open the disc tray and insert the disc correctly.
Exx (xx is any number)	• To prevent the player from operating malfunctioning, the self-diagnosis function has worked. ➡ When you contact your Sony dealer or local authorized Sony service facility, inform the service number with five digits. (example: E:61:10)

Specifications

CD/DVD player

Signal format system	NTSC

Audio characteristics

Frequency response	DVD (PCM96kHz): 2 Hz to 44 kHz (±0.5 dB)* DVD (PCM48kHz): 2 Hz to 22 kHz (±0.5 dB) CD: 2 Hz to 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 115 dB (LINE OUT (AUDIO 1, 2) connectors only)
Harmonic distortion	Less than 0.0028%
Dynamic range	DVD: More than 100 dB CD: More than 97 dB
Wow and flutter	Less than detected value (±0.001% W PEAK)

Outputs and inputs

	Jack type	Output level	Load impedance
LINE OUT (AUDIO 1, 2)	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
DIGITAL OUT (OPTICAL)	Optical output connector	−18 dBm	Wave length: 660 nm
DIGITAL OUT (COAXIAL)	Phono jacks	0.5 Vp-p	75 ohms terminated
LINE OUT (VIDEO 1, 2)	Phono jack	1.0 Vp-p	75 ohms, sync negative
S VIDEO OUT 1, 2	4-pin mini DIN	Y: 1.0 Vp-p C: 0.286 Vp-p	75 ohms, sync negative 75 ohms terminated
PHONES	Phone jack	12 mW	32 ohms
S-LINK	Minijack		

General

Power requirements	120 V AC, 60 Hz
Power consumption	20 W
Dimensions (approx.)	17 × 3 7/8 × 12 1/2 inches (430 × 95 × 325 mm) (w/h/d) incl. projecting parts
Mass (approx.)	8 lb 13 oz (4.0 kg)
Operating temperature	41 °F to 95 °F (5 °C to 35 °C)
Operating humidity	5% to 90%

Supplied accessories

See page 6.

* When you play the PCM sound tracks with 96 kHz sampling frequency, the output signals from the DIGITAL OUT (OPTICAL, COAXIAL) connectors are converted to 48 kHz (sampling frequency) / 16 bits (quantization bits).

Design and specifications are subject to change without notice.

Glossary

Bit rate (page 18)

Value indicating the amount of video data compressed in a DVD per second. The unit is Mbps (Mega bit per second). 1 Mbps indicates that the data per second is 1,000,000 bits. The higher the bit rate is, the larger the amount of data. However, this does not always mean that you can get higher quality pictures.

Chapter (page 5)

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Dolby Digital (AC-3) (page 8)

Digital audio compression technology that the Dolby Laboratories Corporation developed. This technology conforms to 5.1-channel surround. The rear channel is stereo and there is discrete subwoofer channel in this format. The good channel separation is realized because the all channel data is recorded discrete and processed in digital.

Dolby Pro Logic

Audio signal processing technology that Dolby Laboratories Corporation developed for surround sound. When the input signal has the surround component, the Pro Logic process outputs the front, center and rear signals. The rear channel is monaural.

DVD (page 4)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.
The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.
The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.
The audio data is recorded in Dolby Digital (AC-3) as well as in PCM, allowing you to enjoy more real audio presence.
Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

Multi-angle function (page 27)

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVDs.

Multilingual function (page 26)

Several languages for the sound or subtitles in a picture are recorded on some DVDs.

Parental Control (page 28)

A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC) (page 17)

Signals encoded on VIDEO CDs (Version 2.0) to control playback.
By using menu screens recorded on VIDEO CDs with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

Title (page 5)

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on an audio software. Each title is assigned a title number enabling you to locate the title you want.

Track (page 5)

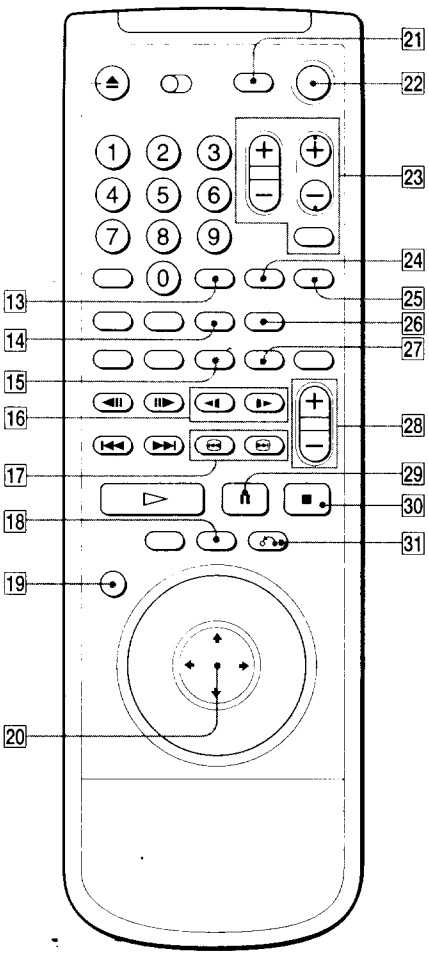
Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

VIDEO CD (page 4)

A compact disc that contains moving pictures.
The picture data uses the MPEG 1 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.
VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.
There are 2 versions of VIDEO CDs.

- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This player conforms to both versions.



13 ENTER button
Executes the items or settings.

14 REPEAT button (22)
Press to execute the repeat play.

15 SUBTITLE CHANGE button (26)
Changes the subtitles when playing a DVD.

16 ◄▮/▮► SLOW buttons (11, 15)
Plays a disc in slow motion.

17 ⏮/⏭ Scan buttons (11, 15)
Locates a point while monitoring the picture or sound.

18 DVD MENU button (13)
Displays the DVD menu on the TV screen.

19 SET UP button (28, 32)
Displays the setup display on the TV screen to set or adjust the items.

20 ←/↑/↓/→/ENTER button
Selects and enters the items or settings.

21 DISPLAY button (18)
Displays the current playing status on the TV screen.

22 POWER button (10, 14)
Turns on and off the power of the player.

23 TV operation buttons (31)
Controls TVs.

24 CLEAR button (22 – 25)
Press to return to the continuous play etc.

25 TIME button (20, 21)
Displays the playinfátime of the disc, etc., on the front panel display.

26 A↔B button (23)
Press to execute the A↔B repeat play.

27 SUBTITLE ON/OFF button (26)
Turns the subtitles on and off when playing a DVD.

28 AV receiver operation buttons (31)
Controls Sony AV receivers.

29 ▮▮PAUSE button (11, 15)
Pauses playing a disc.

30 ■STOP button (11, 15)
Stops playing a disc.

31 ↶RETURN button (17)
Press to return to the preceding selection screen, etc.

Setup Display Item List

Default settings are underlined.

- LANGUAGE SETUP (page 33)
  - OSD: ENGLISH, FRENCH, SPANISH
  - DVD MENU: ENGLISH, FRENCH, SPANISH, ITALIAN, GERMAN, DUTCH, PORTUGUESE, CHINESE, JAPANESE, OTHERS➡
  - AUDIO: ORIGINAL, (same as DVD MENU)
  - SUBTITLE: AUDIO FOLLOW, (same as DVD MENU)

- 1 INITIAL SETUP 1 (page 34)
  - TV TYPE: 4:3 LETTER BOX, 4:3 PAN SCAN, 16:9
  - AUTO PLAY: OFF, TIMER, DEMO1, DEMO2
  - DIMMER: BRIGHT, DARK, OFF
  - BACKGROUND: BLUE, BLACK
  - SCREEN SAVER: ON, OFF
  - PARENTAL CONTROL (page 28)

- 2 INITIAL SETUP 2 (page 35)
  - TRACK SELECTION: OFF, AUTO
  - SURROUND: ON, OFF
  - DIGITAL OUT: PCM, DOLBY DIGITAL / PCM
  - AUDIO DRC: OFF, ON
  - AUDIO ATT: OFF, ON

Language Code List

For details, see page 33.

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1186	Scots Gaelic	1350	Malayalam	1513	Siswati
1028	Abkhazian	1194	Galician	1352	Mongolian	1514	Sesotho
1032	Afrikaans	1196	Guarani	1353	Moldavian	1515	Sundanese
1039	Amharic	1203	Gujarati	1356	Marathi	1516	Swedish
1044	Arabic	1209	Hausa	1357	Malay	1517	Swahili
1045	Assamese	1217	Hindi	1358	Maltese	1521	Tamil
1051	Aymara	1226	Croatian	1363	Burmese	1525	Telugu
1052	Azerbaijani	1229	Hungarian	1365	Nauru	1527	Tajik
1053	Bashkir	1233	Armenian	1369	Nepali	1528	Thai
1057	Byelorussian	1235	Interlingua	1376	Dutch	1529	Tigrinya
1059	Bulgarian	1239	Interlingue	1379	Norwegian	1531	Turkmen
1060	Bihari	1245	Inupiak	1393	Occitan	1532	Tagalog
1061	Bislama	1248	Indonesian	1403	(Afan) Oromo	1534	Setswana
1066	Bengali; Bangla	1253	Icelandic	1408	Oriya	1535	Tonga
1067	Tibetan	1254	Italian	1417	Punjabi	1538	Turkish
1070	Breton	1257	Hebrew	1428	Polish	1539	Tsonga
1079	Catalan	1261	Japanese	1435	Pashto; Pushto	1540	Tatar
1093	Corsican	1269	Yiddish	1436	Portuguese	1543	Twi
1097	Czech	1283	Javanese	1463	Quechua	1557	Ukrainian
1103	Welsh	1287	Georgian	1481	Rhaeto-Romance	1564	Urdu
1105	Danish	1297	Kazakh	1482	Kirundi	1572	Uzbek
1109	German	1298	Greenlandic	1483	Romanian	1581	Vietnamese
1130	Bhutani	1299	Cambodian	1489	Russian	1587	Volapük
1142	Greek	1300	Kannada	1491	Kinyarwanda	1613	Wolof
1144	English	1301	Korean	1495	Sanskrit	1632	Xhosa
1145	Esperanto	1305	Kashmiri	1498	Sindhi	1665	Yoruba
1149	Spanish	1307	Kurdish	1501	Sangho	1684	Chinese
1150	Estonian	1311	Kirghiz	1502	Serbo-Croatian	1697	Zulu
1151	Basque	1313	Latin	1503	Singhalese	1703	Not specified
1157	Persian	1326	Lingala	1505	Slovak		
1165	Finnish	1327	Laothian	1506	Slovenian		
1166	Fiji	1332	Lithuanian	1507	Samoan		
1171	Faroese	1334	Latvian; Lettish	1508	Shona		
1174	French	1345	Malagasy	1509	Somali		
1181	Frisian	1347	Maori	1511	Albanian		
1183	Irish	1349	Macedonian	1512	Serbian		

Index

A

A↔B Repeat 23
Adjusting
  volume 10, 14
Angle 27
AUDIO ATT 35
AUDIO DRC 35
AUTO PLAY 34
Auto pause 20

B

Batteries 6

C

CD 14
Changing
  angles 27
  sound 26
  subtitles 27
Chapter 5, 40
Connecting 6
Continuous play
  CD 14
  DVD 10
  VIDEO CD 14

D, E

Display
  front panel display 20
  on-screen display 18
  Setup display 32
Digital output 12, 35
Dolby Digital (AC-3) 8, 40
DVD 10
DVD menu 13
DVD menu language 33

F, G

Fast Forward 12, 16
Fast Reverse 12, 16
Front panel display 20

H

Handling discs 36
Hi-speed search 11, 15
Hooking up 6

I, J, K

INITIAL SETUP 1 34
INITIAL SETUP 2 35

L, M, N

LANGUAGE SETUP 33
LETTER BOX 34
Locating
  a specific point 11, 15
  by observing the TV screen 12, 16

O

On-screen display
  language 9, 33
  usage 18

P, Q

PAN SCAN 34
Parental control 28
PBC functions 17
PBC Playback 5, 17, 41
Playback
  Continuous Play 10, 14
  Program Play 24
  Repeat Play 22
  Shuffle Play 23
Program Play 24

R

Remote control 6, 30
Repeating
  a specific portion 23
  current title, chapter or track 22
  disc 22
Resume Play 25

S

Scene 5
Scene Search 15
Searching. *See* Locating.
Setup display
  INITIAL SETUP 1 34
  INITIAL SETUP 2 35
  item list 45
  LANGUAGE SETUP 33
  usage 32
Shuffle Play 23
Slow-motion Play 12, 16
S video output 7
Subtitles
  changing 26
  turning on and off 26

T

Title 5, 41
Title menu 13
Track 5, 41
Troubleshooting 37

U

Usable discs 4

V, W, X, Y, Z

VIDEO CD 14